User Indifference Hurts Chances of

Comdex Revival but IT managers hold key to '05 and beyond

BY TODD & WYISS

An inability to attract top IT vendors may have killed Comdex 2004, but the real challenge confronting the organizers is to ensure that a lack of interest among

IT professionals doesn't kill the show altogether. MediaLive International Inc. shocked IT users and vendors law week when it canceled this November's Condex show. MediaLive said that the show could have been profitable but that the unwillingness of major IT vendors such as IBM and Dell Inc. to exhibit meant that it wouldn't be a worthwhile draw for corporate IT users Instead, the San Francisco

based company said it would skip this year's show to "reshape the event with the co-

tion technology industry leaders" and get it ready for November 2005. MediaLive has established a Comdex Advisory Board that includes Microsoft Corp. and other vendors to

Comdex, page 49





UNCLEAR ON THE CONCEPT? We explain on-demand computing in

PeopleSoft's Pricing Policies

Annoy J.D. Edwards Users

plain English and explore the threeway split among users. Some are doing it, some are examining it. and some are extremely skeptical. STORIES BEGIN ON PAGE 33.

Confusion, potential

PeopleSoft Inc's offort to mi-

Co. customers to its own soft-

ference here, users of what is

grate former LD. Edwards &

ware licensing and mainte-

cost increases cited

BY MARC L. SONGINI



high dealtheallaiseachdalaichdaidh PRINCE TO STORE SHAPE 88234939/CB/98 CH2094268 983 18731

PROGLESS PO BOX 984

face higher costs. During an open forum at last week's Quest Global Con-

nance pricing model has some Pricing has users bristling about what they say is a lack of clarity and consistency as well as the possibility that that they could

WILLIAM GABRY, CARRENT INC.

now PeopleSoft's Enterprise

One line of business applica-

tions raised questions about

move them from their LD. Edwards software licenses to its

enterprise licensine scheme.

The users complained that

PeopleSoft, page 16

the company's attempts to

ISO Endorses **Key Security** Certification

Security managers praise OK of CISSP

BY JAIKUMAR YLJAYAN The International Standards Organization last week gave its stamp of approval to the CISSP security certification for IT workers, and a halfdozen security managers said the endorsement should help enhance the certification's legirmacy and acceptance. They added that boosting CISSP's credibility would be a welcome development at a

CISSP page 16





Hello, my name is

Carole

Can't there be a machine that adapts to my business, not the other way around?

Canon

Goodbye Hackers

The right management should do more than just protect. It should also enable.

eTrust™ Security Management Software

With influst security management software, your information and yet safeguarded from internal and external threas. We provide authorized customers, partners, and employees with appropriate access that can hely your business grow in addition to securing date, effect alloy provides a single view of your security environments, any our annative rest-time decisions based on comprehensive information. If you're looking for ways to minimize risk while maximizing your potential, for give a white pages, or to a commiscaulity.



Heffo Customers

CONTENTS

Emerging Technologies Progress Report in the Technology section: Tablet PCs, InfiniBand. server blades and iSCSI storage-area networks made big splashes when they broke into the market in the past two years. How loud is the buzz around them now? Page 23



06.28.04

Pulling the Strings In the Management section: Signing the con-

tract is the easy part. Managing an outsourcing relationship requires upfront planning, a highly skilled management team, constant communication and an expanded budget. Page 29

NFWS

- 6 Cisco adds endpoint security tools for controlling network access by PCs and mobile de-
- 7 The FCC sides with airlines in their battle with airports for control of Wi-Fi spectrum.
- Municipal governments deploy Wi-Fi networks for pub lic safety and Internet access 10 The JavaOne conference will
- showcase vendors' efforts to simplify Java programming. 12 California's new privacy law for online businesses goes
- into effect this week, but most companies already comply 12 Sprint PCS and Cincular plan
- high-speed cellular networks, matching an earlier move by Marinon Missless 14 Offshore and domestic IT
- services firms are narrowing the differences between their offerings. 14 Many IT departments are

reluctant to take part in Sarbanes-Oxley efforts to document IT controls auditors say

ONLINE DEPARTMENTS Breaking News C Quickl link #1510

OPINIONS

- 18 Mark Hall thinks it's a shame that Apple is often ignored by corporate IT, but the company's own secrecy about its product plans should get much of the blame
- David Moschella knows why executives bought into all that "IT Doesn't Matter" stuff last year. Your job is to convince them otherwise
- 19 Virginia Robbins wonders why even mild-mannered help desk managers become arrogant despots after they set their MCSEs
- 27 Robert L. Mitchell says Windows XP Service Pack 2 is notable not just for what it does but also for showing bow far Microsoft may be willing to go to improve the security of Mindows
- 31 Barbara Gomolski has seen the wrong chargeback systems cause friction between IT and business, but she says petting it right isn't that hard.
- 50 Frankly Speaking: Frank Hayes doesn't lament the fact that Comdex is as good as dead. It ran its course, as all trade shows do, and now is the time to bury it and make way for the next big thing.

DEPARTMENTS/RESOURCES At Deadline Briefs News Briefs ...

Letters IT Careers Company Index How to Contact CW Shark Tank ...

SPECIAL REPORT ON-DEMAND COMPUTING

On-Demand, Un-Hyped On-demand computing is one

of the those buzzwords with multiple definitions. In this special report, we've tried to clarify the situation and spell out the pros and cons, so you can figure out where you Stand, PACKAGE BEGINS ON PAGE 33.

34 In Plain English, On-demand computing at the enterprise level takes discipline, a deep knowledge of business processes and a rethinking of the organizational structure of IT. Experts and users like Cigna's Ben Flock (below) explain what you need to know. ONLINE: In an exclusive Computer



world survey, a maiority of the 765 IT professionals who responded indicated some degree of skepticism about on-demand come

ine. Read the full sur results online C OuickLink #4690 36 The Pion Farniture buyers hit

the shops on federal holiers hit the roads in summertim

Businesses with seasonal demands like these have found savings by being early adopters of ondemand computing

38 The Tire-Kickers, Three IT managers are giving onthey aren't yet sold on it. Here's a look at their hopes for this new com-

puting model and their key 40 The Skeptics. IT managers like Damier

Bean (right) of Hilton Hotels reveal their top concerns about ondemand computing

42 Opinion: All the major vendors are talking about on-demand computing as a server technology. But umnist Mark Hall says there's real value in exploiting this com-



Check for IIS Patch. Microsoft Warns

Microsoft Corp. urged syst aters to ensure that they have installed a previously ased software patch to protect themselves from an apparent attack against Web sites runs the company's internet infor-mation Services 5.0 software. Users who haven't installed the patch detailed in Microsoft Security Bulletin MSG4-011 appear to be at risk, according to the soft-

ware vendor. attack involves a group of Russian hackers who are breaking into Web sites and installing malicious code in an effort to steal credit ers and other data from Web surfers. It's still not clear what vulnerability they're exploiting, said Marty Lidner, an t-handling team leader at CERT Coordination Center in Inhurgh. But following Microit's advice would be "prudent." he added. (For more details, go to our Web site: QuickLink 47818.)

Microsoft Slows Pace on ERP Apps

Microsoft is slowing developmen work on a new family of ERP apas known as Project Green and will instead focus on upgrad ing its four existing product lines. The number of developers assigned to Project Oreen is being out from about 200 to 70, Micro-soft said, adding that the new line won't be ready until 2008 at

Short Takes

INTEL CORP, has found a flaw in its recently launched \$15 G/P and 925X chip cets that can prevent PCs from starting up normally A spokesmen said lotel plans to recall some of the devices. . . . ISM's TIVOLI SOFTWARE unit day plans to announce work ad-scheduling software that nee and clue

ATDEADLINE Cisco Unveils Products For Endpoint Security

Promises stronger integration ties to third parties

BY JANUAR WILLIAM isco Systems Inc. last week rolled out the first set of products under its Network Admission Control program, which is designed to help companies enforce secu-

rity policies on network endpoint devices such as PCs and mobile systems. The company also said it will seek broader participation from third-party security software vendors in response to complaints that the NAC program is too proprietary. Currently, Nerwork Associates Inc., Symantec Corp. and

Trend Micro Inc. are the only companies working with Cisco on the endpoint effort which was announced last fall JOuickLink 430271. Among the products released last week was software called Cisco Trust Agent. Cis-

At a national swants core-

mony held here. ASRPE offi-

creorid had won the honor

among business publications

The judges cited its "cutting-

edge" content, design and in-

In accepting the award,

Maryfran Johnson stressed

that it's the relationship with

readers that drives the publi-

cation's commitment to a high

editorial and design standard.

Computerworld editor in chief

volvement with readers.

with circulations over 80,000.

cials announced that Comput-

Computerworld Named Magazine of the Year "We're gratified by what we get to do every week," Johnson Computerworld last week was said. "Just that we have the named Magazine of the Year privilege of talking with the by the American Society of readers we get to talk with is a Business Publication Editors



can be used on servers and client systems to collect secu rity-related data such as operating system patch levels and

the status of antivirus tools. The software sends the data to new NAC-enabled routers. which automatically decide whether to allow devices to access networks based on their security status

Filling a Void

Cisco's NAC technology addresses the growing need for communies to protect not just their network perimeters but also the devices connecting to them, said Ken Kucera, a senior vice president at First National Bank of Omaha. Cisco's market-leading status puts it in a position to provide that level of protection. Kucera added. "I've always wondered why Cisco wasn't in this space before," he said.

But to be useful to more users. Cisco must let more security vendors hook into the NAC architecture, said loel So far Cisco has been reluc-

is NAC integration with additional Cinco product such as its switches and re-access VPN inchesiones a Support for the 802.tx

Future Additions

a Expanded operating of Server 2003, Linux and Sol

Conover, an analyst at Current Analysis Inc. in Sterline, Va. For instance, Cisco Trust Agent collects requrity infor mation only from antivirus software sold by Network As sociates, Symantee and Trend Micro. Rival products from companies such as InfoExpress Inc. and Zone Labs Inc. draw information from more security tools, including hostbased intrusion-detection systems and firewalls.

the publication together. It's

wonderful to be honored for

puterworld Inc., also ex-

pressed his appreciation for

the award and what it signi-

fies. "Computerworld's com-

what being the voice of IT

mitment to reader advocacy is

management is all about," he

said. "The fact that the judges

put such a strong emphasis on

and delivering special value to

Computerworld won 13 orb-

er national ASRPF editorial

and design awards, including

tion and best special section,

and a sweep of the bronze, sil-

gold awards for best news sec-

being involved with readers

them is very gratifying.

Bob Carrigan, CEO of Com-

that."

tant to let other vendors par ticlpate in the NAC effort, said Fred Feldman, vice president of marketing at San Franciscobased Zone Labs "Our concern is that they will use their position to freeze best-of-

breed wendors out of the mar ket." Feldman said. "Today it's a closed interface," said Stacey Lum, CEO of InfoExpress in Mountain View, Calif. 'If Cisco doesn't onen it up, then it's Clean against the rest of the world." Cisco is aware of such con corns, and in the third quarter it will set up a NAC integration program that will be open to other vendors, said David King, director of business development for Cisco's virtual private networking unit. The company will make select NAC APIs available, including one for Cisco Trust Agent.

King said He added that in the future. Cisco Trust Agent will be able to collect information from bost-based firewalls, introsion-detection software and other security applications on endpoint systems. O 47781

STORAGE TRAINING

Cinco wants to get WARs up to speed on his configure its storage metroles in SAN: QuickLink 47767

yer and gold awards for front cover design of a news tabloid. The Computerworld.com Web site was given a bronze award for original Web news section. CSO, a sister publication of Computerworld, won the Mag-

azine of the Year award for publications with a circulation under 80,000, giving parent company International Data Group a sweep of the category Also at last week's ceremonv. IDG founder and chairman Patrick J. McGovern was honored as the recipient of the ASBPE's 2004 Lifetime Achievement Award, ASBPE Awards Committee Chairman Roy Harris credited McGov-

ern with "almost singlehandedly" establishing the IT publishing industry with the launch of Computerworld in 1047 6 47700

number of ITA mem

with implementing

systems. The diffi-

from unnecessary

ulties stem solely

FCC Sides With Airlines in Fight Over Wi-Fi Spectrum

Commission rules that it, not airports, has jurisdiction over wireless airwayes

The Federal Communications Commission last week handed airlines a victory in their battle with airport authorities over control of Wi-Fi spectrum at airports, ruling that it has exclusive jurisdiction over the use of unlicensed ener-

trum "regardless of venue." The FCC acted in response to a petition filed in March by the Industrial Telecommun cations Association, a trade group that represents airlines. package-delivery couriers and companies in other industries on spectrum issues. In the petition, the ITA asked the FCC to stop airports from banning

wireless network installations by individual tenants Airport authorities had claimed the right to manage the spectrum within their boundaries and require that tenants use airportwide Wi-Fi networks instead of deploying their own. Just last week, Locan International Airport in oston turned on a network that covers its entire facility and said all tenants would have to pay usage fees to run

their wireless applications. 'Anticompetitive' Moves The ITA cited Logan's Universal Wireless Ethernet System. a similar network at Denver International Airport and oth-

ers planned for the Los Angeles and the Raleigh-Durham airports in its petition to the FCC. labeling the moves by the airports to restrict individ ual Wi-Fi networks as "anti-

titive activities. The FCC issued its ruling late Thursday. In a staten

FOR MONEY'S SAKE

the next day, Laura Smith, the ITA's president and CEO, said the ruling was "a big soore for our airline members."

"The FCC has made the right decision," United Air Lines Inc. said in its own statement. 'United can now install Wi-Fi systems in our tenant space, bag rooms, bag claim areas and on the ramp without months of negotiations and

unnecessary costs." Officials at Denver International and the Massachuseers Port Authority, which runs Logan, didn't return calls seeking comment by deadline

ort spokeswoman Barbara Platt said the use of a single network at the airport provides for better management of the wireless spectrum there and "ensures Wi-Fi runs smoothly for all users."

Like Massport, Denver In ternational maintained that it needed to manage the Wi-Fi spectrum in the unlicensed "If we don't coordinate, it's

2.4- and 5-GHz bands to ensure frequency and spectrum coordination on its property. going to be a zoo out there" said Jim Winston, the airport's director of telecommunications. "There would be mass

will cover all of the county's

work is expected to provide

mobile data services at speeds

loel Hobson, network ser-

vices manager for the city of

Spokane, said the downtown

hot zone there is a mile long

and a third of a mile wide. It's

covered by five 802 IIb Wi-Fi

antennas from San Francisco-

Public safety users access

the network through virtual

base stations plus bich-gain

940 square miles. The net

up to 54Mbit/sec

based Vivato Inc.

But Mike Mader, a ground systems radio engineer who handles Wi-Fi installations for United, said the cost of using airportwide networks is an "unnecessary expense" for the airline. United has installed Wi-Fi networks to support bag-scanning at numerous airports, including its Chicago bub. Mader said that approach is more cost-effective than

paying usage fees to airports. He added that United experienced technical probles with a network from AT&T Wireless Services Inc. at Denver International. The network access points didn't provide adequate coverage for United's bag-scanning system, Mader said, notine that the wireless signals didn't reach far enough to support scanning of late bags being loaded into planes.

In addition, United's signals faced interference from another 2.4-GHz network, which

was eventually traced to an unapproved installation at the airport's central car-rental facility. The problems in Denver began last October and weren't resolved until this month, Mader said. @ 47739

authorities.

rivate network companions also wants to use "cutting-Hobson said Spokane has edge technology" to lure new equipped roughly 50 vehicles business, said city manages with russed mobile computers Jim Palenick. Intel helped from local vendor Itronia evaluate bidders for the mu-Corp. When users room out of nicipal network, Palenick said. the Wi-Fi hot zone, they sutoand last month the city tapped matically switch to a cellular Usurf America Inc. in Coldata network, using Itronix's orado Springs to build it under iCare mobility software. Over

time, the city wants to not Itronix systems in up to 1,250 police, fire and emergency services vehicles The hot zone cost between \$50,000 and \$75,000 to devel-

op and deploy, according to Robin Toth, Spokane's economic development project manager. Spokupe officials hope the Internet access capabilities will help attract busi nesses to the city. Toth said. Rio Rancho, which is home

to an Intel Corp. chip plant,

a contract that doesn't include any infrastructure costs. Howevez, Rio Rancho will have to pay fees for data services. Ken Upcraft, Usurf's presi dent, said his company intends to blanket the city with a mesh Wi-Fi network that includes about 600 access points. Communications between city

appracies will be bandled own a firewalled network with 178bit encryption, Upcraft added. Cook County's public safety network plans are similar to those of New York City OuickLink 476401 County CIO Katherine Maras O'Leary said the network infrastructure will include about 150 ac-

Dudley Donelson, Cook County's deputy director of IT, said the access points, which should be installed by next year will be mounted on

200-ft. towers to boost their range to three miles. O 47787

Local Governments Deploy Wide-Area Wi-Fi Networks lion from the U.S. Department Setups support of Homeland Security for the public safety. first phase of a public safety Wi-Fi network that eventually

Internet access

Wi-Fi hot spots are starting to

morph into hot zones as local governments adapt the technology to provide broadband service for police and fire departments, in addition to wireless Internet access across areas ranging from downtown districts to hundreds of square miles.

Last week, the government of Spokane, Wash, turned on a dual-use Wi-Fi network in a 100-block area of the city's downtown. And over the weekend, the city of Rio Ran-

cho, N.M., was due to launch the first phase of a network for public safety workers and general Internet access. Once it's completed in December. Rio Rancho's network will cover 103 square miles.

Meanwhile, Cook County, III., which includes Chicago this month received \$12.1 milWi-Fi Hot Zones TECHNOLOGY



FCC Sides With Airlines in Fight Over Wi-Fi Spectrum

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Local Governments Deploy Wide-Area Wi-Fi Networks

Setups support public safety. Internet access

BY BOB BROWN Wi-Fi hot spots are starting to morph into hot zones as local nology to provide broadband service for police and fire de-

partments, in addition to wireless Internet access across areas ranging from downtown districts to hundreds of square miles.

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(100 blocks)

lion from the U.S. Department of Homeland Security for the first phase of a public safety Wi-Fi network that eventually will cover all of the countries 940 square miles. The notwork is expected to provide mobile data services at speeds police, fire and emergency

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private network connections Hobsen yast Studens has canipped roughly 50 vehicles with rugged mobile computers Corp When users room out of the Wi-Fi hot zone, they automotically switch to a cellular data network, using brongs's it are mobility software. Over time, the cits wants to put Itronix systems in up to 1,250

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Durcktink 42 det Course CIO Katherine Maras O'Learn said the network infrastruture will include about 190 ac

County's deputy director of IT, said the access points, next year, will be mounted on 200-ft, towers to boost their

Unfortunately, a ber of ITA mem bers who are airport tenants have experi enced a significant amount of difficulty ith implementing systems. The difficulties stem solely from unnecessary nitations and restrictions put in place by the airport

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also wants to use feurting edge technology," to June new business, said city manager evaluate bidders for the mu meiral network, Palenick said. and last month the city tapped Usurf America Inc. m Col. orado Springs to build it under a contract that doesn't include any infrastructure costs. However. Rio Rancho will have to pay fees for data services.

Ken Uperafi, Usurf's passa dent, said his company intendto blanket the city with a mesh Wi-Fi network that includes about 600 access points. Com munications between city attencies will be handled over a firewalled network with 128bit encryption, Upgraft added Cook County's public safety network plans are similar to

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range to three miles. O 47787

Microsoft Plans OS For Clustering Apps

Microsoft Corp. said it's devel ing a version of Windows Server 2003 tailored for high-performance computing applications. The HPC Edition will integrate the ating system with clust ent software a joh ier and other tools, Mic soft said. A beta-test release uld be available by year's end, rcial shipments are cted to start in late 2005.

DOJ Concludes Its Case in Oracle Trial

The U.S. Department of Justice ed its case assisst Oracle Corp.'s proposed takeover of leSoft Inc. R. Hewitt Pate, an nt attorney general, said the DOJ provided "compelling oce that a takeover would be anticompetitive. But an SAP AG us called as a witness by Oracle testified that officials at the ERP market leader "anticip a greater amount of comness" from Oracle if it succeeds in acquiring PeopleSoft

Intel Readies Xeon With 64-bit Support

Intel Corp. Index will introduce a Xeon processor that can run both 64- and 32-bit applications. sources told the IDG News Service. The device, code-named Nocona, is the first to incorporat Intel's set of 64-bit extensions to the x86 architecture. Advanced Micro Devices Inc. already offers similar functionality in its Opteror chip. An Intel spokesmen declined to comment about Nocona.

Short Takes

340 released a rapid deploym lool designed to speed up and splify installations of its Net naver middleware technology , works out a said it has been

arded a U.S. patent on tech agy for using the conductivity of the luman body to link various portable devices.

CONTHE MARK

HOT TECHNOLOGY TRENDS, NEW PRODUCT NEWS AND INDUSTRY GOSSIP



Open-Source Apps Losing Desktop . . .

... battle with Microsoft Corp. In fact, one wonders whether there's been a skirmish at all. For more than two years, open-source advocates have been furiously throwing alternatives into the market to compete against the Windows/Office combo, with little or

nothing to show for their efforts, OpenOffice and Star-Office have been the most notable attempts, the latter pushed hard by Sun Microsystems Inc. These office productivity tools run on Linux of course, and, for all intents and purposes, have been free for the taking. Yet, despite some of the toughest, most cost-constrained years in IT history, "it's pretty hard to come up with data that shows any traction from these producte" or Alan Vator, Microsoft's senior director for business strategy, carefully puts is. That's an understatement. How has Microsoft defended its desktop parf against freehie commeritors? By focusing on cost, says Yates, "Given

the focus of the entire business world on cost recently. it's natural for people to focus on low-cost alternatives," he says. "We ourselves position Office as having the lowest TCO on the market," Switching to open-source productiv ity tools would cost you plenty in new deployment fees,

user training, file conversion and more. That's an argument that clearly resonates inside IT shops, or else they would have embraced open-source on the deskton much as they have on servers, where Linux, Apache, MySQL and other tools are giving Microsoft a run for its mooey. But Microsoft owns the desktop, and the open-source folks might as well give up the silly game.

Open-Source Server Management . . .

. . . becomes more critical as ownest spreads. With more his companies shifting apps to Linux servers, the need to manage those machines and their software stacks has become paramount. To the res-



cue comes ships Hyperic trol the major server tools,

such as Arache, (Boss, Linux, MvSOL and Tomcat. Mark Douglas, president of the 3-month-old company, says his 100% Java app, which is free for developers beginning this week, gives you everything from IDBC connection management between your database and application servers to end-to-end performance metrics between end moon and Wish corners Currently, Hyperic HQ feeds alerts into its own browser based console or into a Tivoli management system Bot if

you wanted those alerts aimed at BMC Patrol or HP Open-View, says Douglas, "we'd be happy to do it. It's not hard." Pricing is \$65 per month per production machine.

Voice-Over-IF Spam Threat is real, supp Tworek, CEO

of Ooria Inc. a Frederick. Md-based VoIP management firm That's something you certainly didn't want

technically, it can be done, says Tworek. So, will the idea of VolP spam deter you from deploying it? Not likely, Already, Voll3-ready private hranch exchanges are outselling the old-fashioned kind because the appeal of avoiding toll charges and taking advantage of benefits like unifled messaging services and simpler wiring layouts outweighs potential problems. Besides, Tworck claims, his company's VolP Monitoring and Management System (VMMS) will be able to

souelch spam if it ever be comes a problem. The VMMS already handles disaster recovery, path analysis, call quality and other manage ment operations of traditional PBXs. Oovia's VMMS cur rently runs on Windows, but expect a Solaris-based version by year's end.

Optimal J Upgrade Eases Java code testino for program mers. And that's a boost for

panies creating enter prisewide applications using Java - the number of which Gartner Inc. predicts will grow 300% by 2008. According to Mike Burba, launch manager at Compuware Corp. in Detroit the Optimal 3.2 release in mid-July will give programmers "model-driven testing, which simplifies their ability to generate test scripts for their code." The upgrade also adds a pluz-in for the open-source Eclipse developer framework, includes com plete application-analysis tools and adds support for the IBM Rational ClearCase source-control system, among other improvements

Optimal 3.2 comes in Developer, Professional and Architect editions Symantec Nails Non-English Spam . . .

... with Brightmail 6.0, which ships on June 30. With up to 20% of the world's spam tarectine non-English speakers. Symantec Corp. in Cupertino, Calif., thinks global companies will like the latest release of its recently acquired technology that stops spam in II languages. They may also appreciate improvements to its suspect source and safesource IP list filters, messageblocking determined by attachment signatures, and significant upgrades to its management console, which is now fully browser-based. Pricing starts at \$1,399 per





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oft Corp. said it's develo ing a version of Windows Serve 2003 tailored for high-perforent software, a job uld be available by year's end,

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The U.S. Department of Justice p.'s proposed takeover of poinSoft inc. R. Hewitt Pate, an nt attorney general, said e that a takeover wo repetitive. But an SAP AG testified that officials at the ERP market leader "ar ater amount of comfrom Oracle If it or

Intel Readies Xeon With 64-bit Support

intel Corp. today will introduce a n processor that can run both 64- and 32-bit applications os told the IDS News Sc vice. The device, code-named Nocena, is the first to incorpo (s set of 84-bit ex to xRS architecture. Adv ro Devices Inc. already offers enality in its O

Short Takes

SAP released a rapid dop ned to speed up and

... MICROSOFT said it has be reded a U.S. patient on tec egy for using the co

C ON THE MARK



such as Apache, JBoss, Linux, MySQL and Tomest. Mark

Douglas, president of the

3-mooth-old company, says

his 100% Java app, which is

this week, gives you everything from JDBC connection

free for developers beginning

servers to end-to-end perfor-

mance metrics between end

users and Web servers. Cur-

rently, Hyperic HQ feeds

ament between west database and application



Open-Source Apps Losing Desktop . . .

... battle with Microsoft Corp. In fact, one wonders whether there's been a skirmish at all. For more than two years, open-source advocates have been furiously throwing alternatives into the market to compete against the Windows/Office combo, with little or

nothing to show for their efforts. OpenOffice and Star-Office have been the most notable attempts, the latter pushed hard by Sun Microsystems Inc. These office productivity tools run on Linux. of course, and, for all intents and purposes, have been free for the taking. Yet, despite some of the toughest, most history, "it's pretty hard to come up with data that shows any traction from these products," as Alan Yates, Microsoft's senior director for business strategy, carefully puts it. That's an understatement.

How has Microsoft defended its desktop turf against free bie competitors? By focusing oo cost, says Yates, "Given the focus of the entire business world on cost recently. it's natural for people to focus on low-cost alternatives," he says, "We ourselves position

Office as having the lowest TCO on the market," Switching to open-source productivity tools would cost you plenty in new deployment fees.

user training, file conversion and more. That's an argument that clearly resonates inside IT shops, or else they would have embraced open-source oo the desktop much as they have on servers, where Linux, Anache, MySOL and other tools are giving Microsoft a run for its money. But Microsoft owns the desktop, and the open-source folks might as well give up the silly game.

Open-Source Server Management . . .

nes mere critical as leyment spreads. With more big companies shifting apps to Linux servers, the need to manage those machines and their software stacks has become paramount. To the rescue comes

Hyperic LLC in San Bran. cisco, which ships Hyperic HQ to monitor and control the major

alerts into its own browser based console or into a Tivoli management system. But if you wented those sleets simed at BMC Patrol or HP Opeo-View, says Douglas, "we'd be happy to do it. It's not hard." Pricing is \$65 per month per Voice-Over-IP Spam Threat . . . in real, more

sts Richard Tworek, CEO of Oovia Inc. a Frederick



didn't want to hear But technically, it can be done. says Tworek, So, will the idea of VoIP spam deter you from deploying it? Not likely. Al-ready. VoIP-ready private

branch exchanges are out-selling the old-fashioned kind because the appeal of avoiding toll charges and taking adfied messaging services and simpler wiring layouts outweighs potential problems. Besides, Tworck claims, his company's VoIP Monitoring and Management System

(VMMS) will be able to squelch spam if it ever be comes a problem. The VMMS already handles disaster recovery, path analysis, call quality and other management operations of trad

al PBXs, Qovia's VMM5 cur rently runs on Windows, but expect a Solaris-based version by year's end.

OntimalJ Upgrade Eases Java . . .

... code teeting for program-mers. And that's a boost for companies creating enterprisewide applications usin lava - the number of which Gartner Inc. predicts will grow 300% by 2008. According to Mike Burba, launch user at Compuware Corn in Detroit, the Optimal 3.2 release in mid-July will give programmers model-driven testing, which simplifies their ability to generate test scripts for their code." The upgrade also adds a plug-in for the open-source Eclipse develop er framework, includes complete application-analysis tools and adds support for

the IBM Rational ClearCase source-control system. amone other improvement Optimall 3.2 comes in Developer, Professional and Architect editions

Symantec Nails Non-English Sparn with Brightmail 6.0, which

ships on June 30. With up to 20% of the world's spam targeting non-English speakers, Symantec Corp. in Cupertino Calif., thinks global companies will like the latest release of its recently acquired technology that stops spam in Il languages. They may also appreciate improvements to its suspect-source and safesource IP list filters, messageblocking determined by attachment signatures, and significant upgrades to its management console, which is now fully browser-based. Pricing starts at \$1,399 per year for 49 users. O 47772

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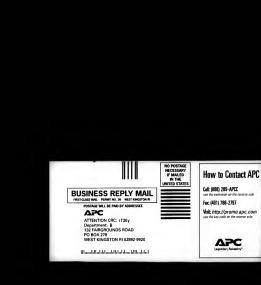
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Letter the season of the seas



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Oliver Rist. Senor Contribution Editor Brian Chee, Industry Expert InfoWorld, 3/12/2004

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Sun and BEA Push To Make Java Easy

lavaOne conference will showcase new offerings aimed at reducing complexity

BY CAROL SLIWA EVELOPERS at this week's lavaOne conference will get a chance to check the progress that tools vendors have made in their lone quest to ease lava programming so they can better compete

against Microsoft Corp. For starters, conference sponsor Sun Microsystems Inc. will try to reassert itself as a major player with the release of lava Studio Creator. The visually oriented tool aims to "make it as easy to develop for the Java platform as Visual Basic makes it for Windows," according to loc Keller. the company's vice president of Java Web services developer tools marketing

But some developers may cast an eye toward a joint yenture between BEA Systems Inc., Instantiations Inc. and the Eclipse Foundation, the nonprofit spin-off overseeing the open-source development framework that IBM created. The vendors will announce plans for an open-source incubator project, called Pollinate. to create Eclipse-based development tools that integrate with Apoche Beehive, an application runtime framework BEA turned over to the opensource community

"The big theme is bringing

Another much-anticipat on is the integration of Eclipse's Standard Widget Tool let (SWT) and the Swing compo nity Process (JCP) that Sun Micropostoms constact to

lava to the masses," said Mark Driver, an analyst at Gartner Inc. "Studio Creator and what BEA is doing with Beehive are targeted at bringing Java to the mortal man, making it more attractive to the corporate IT programmer versus the highly skilled systems programmers.

A beta version of Pollinate is due this fall under the Eclipse Public License When it arrives. Eclipse users will get a chance to try BEA's lava Control architecture, a lightweight server-side component model that reduces the lowlevel plumbing code develop-

ers need to write. "That sounds like a great idea," said Michael Reagin, the Portland, Ore.-based director of research and development at Providence Health System. which uses BEA's application

ed Eclipse, "It certain ly would support the vision of open-source, and I think it's going to be a positive for BEA and lava in ceneral."

Reagin said the nonprofit organization looked at commercial offerings that required expensive, high-powered developer workstations and "didn't see a whole lot of value compared to Eclipse." Only 30% of Providence Health System's development work is done in Java, and it gravitated toward the freely available Eclipse integrated development environment, he said Dave Cotter, director of developer marketing at BEA.

said that if a vendor creates a control today, it works only on BEA's WebLogic. But with Beehive, vendors could create controls for the Tomeat opensource application server or any J2EE-based application server that supports Bechive. "Developers want to know

Java Tools Roundup

SUR: Launching Jave Stadio Creator tool: providing early access versions of Java Stadio Enterprise Version 2 and NetBeans 4.0: senerching Java com

site to include component marketplace BEA: Working with Ecipee Foundation and Instantiations on Ecipee based development environment and tools for Apache Bestive, an application frame

work that BEA submitted to the Apache open-source project SORLAND: Adding Mac OS X support for Java tools; rolessing new version of ServerTrace performance optimization tool.

IBM: Accounted WebSphere Extended Deployment software this work to automatically adust computing resources.

that they can use the fram

work and not be locked into BEA's tools," said Driver, "The potential is that Beehive could become the de facto frame work for high-productivity products - what we're ealling the 'J2EZ space,' where time to market, low cost and produc-

tivity are driving factors." Sun's 12EZ offering, Java Studio Creator, will be available only to Sun Developer Network subscribers. The \$99 price includes a perpetual license to lava Studio Creator and one year of product updates, upgrades and access to premium content.

This week, Sun plans to release an early-access copy of

its Java Studio Enterprise tool, which adds support for the Unified Modeling Language and application profiling.

www.computerworld.com

Sun also plans to unveil the 4.0 release of its NetBeans application framework, which adds support for the creation of Enterprise IsvaReans and Web services and a project management system based on The Apache Software Foundation's Ant. Keller said Net-Beans 4.0 could be out in late summer or early fall. © 47764

QuickLink 47812

Eclipse Director Discusses 3.0 Development Platform The Echose Foundation last week evolve Jave, SWT and Swing are

announced the launch of Version used to build graphical oner inter 3.0 of its open-source develop faces, and some vendors cried ment platform - the first mayor foul when IBM broke ranks from ase since the conprofit group the JCP with its SWT. The techassumed oversight of the IBMogios are being reter created technology. Modews and Licen One key new feature is a rich Also this week, Eclipsi client framework that will further ng new versions

Jorn Eclipse "from a platof its Cond Can desert form for doing tools integration to a platform for doing application construction and integra cation optimization and verification. "Many peotion," said Milke Millinkevice the former Oracle Corp. vice ple have the misomorp president who became the tion that Ecliose is a group's executive director on Jove DE and there all

nkovich said in an inview with Computerworld Can you provide more det about the rich-client platre? We've done a lot of work to refector some of the basic

creat took and its

ides project for appli-

make them more generic so they can support any application, not just an IDE in doing so, they've created a platform which drived opers working in, for example enterprise (T shoos can take

build rich, highly functional deaktop applica tions in Java which con form to the native platform look and feel of the underhenn nietiorm

What's the next m area of focus for Eclipse? The top-level project is called Web tools. The two initial subprojects

under that top-level project are called Web tooling and JZEE tooling. Web tooling is really a dressing areas like HTML-beau

risated architectures. The JDFF tooking is for doing server depic ments and application construc tion in support of both servlet Java Server Page)-style devel ent and [Enterprise Jinesans) development as well.

on do you expect the first and? In 2005, but there are going to be interes releas

If you do your job well, won you have a major effect on the commercial teels market? There's no doubt that Eclasse does and has and will be in the future affecting the commercia lools. But what we are trying to do is make open-source imple entations of the basic tool which has been done over and over and over again, and there and add when in new and innov

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pteron Processors.

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ompening prices.

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AOL Follows Yahoo. Drops Corporate IM

America Online Inc. said it will drop its corporate instant me saging gateway software and offor to migrate users to a sem product from Milogic Inc. ADL's move came just one business day after Yahoo Inc.'s June 18 ansent that its Yahoo fluss ness Messenger service is being ued. AOL said it will contime to offer AIM Business Services, a set of instant messaging ooks armed directly at end users

Sun Unit to Focus On Government IT

Sun Microsystems Inc. said it has formed a Global Government Of-fice to focus on the IT needs of government agencies worldwide The unit will be led by Clark Man ters, an executive vice president who headed Sun's enterprise systems group until a recent reorga ation. Mosters was also named ent of the Sun Microsysons Federal Inc. subsidiary.

CA Promotes R&D Exec. Hires Counsel

Computer Associates Interna al Inc. named Mark Barrenec executive vice president of soft ware development, promoting him from senior vice preside CA also said it has hired a general counsel to fill a job that had been vacant since the previous head of legal affairs was fired in April. The company's accounting pra-tices are being investigated by Indural prosecutors and the Se nties and Exchange Commi

Short Takes

NOVELL INC today plans to ship ZENworks 6.5, an upgrade of its ems management software that can centrally control networks of Linux-based servers and PCs. . . . ORACLE CORP and NET

SUITE INC said they have ended a licensing deal that let NetSuita sell its hosted ERP applicat under Oracle's name

Cell Carriers Engage in High-Speed Data Race

Cingular, Sprint PCS, Verizon Wireless all promise faster mobile networks

nonal cuverage for high-speed cellular data services edged closer to reality last week, as Cingular Wire less and Serint PCS Group senarately announced plans to deploy new broadband networks wor the next two years.

mined Verizon Wireless in aiming high-speed data offer ings at IT managers who need to support increasingly mobile wurkfurces, Vertzun Wireless last week reaffirmed that is will offer high-speed capabilities in a third of its national nerwork by year's end, keeping to a plan announced in

January (Quick) ink 439521 Sprint PCS said it plans to roll out a data service with average speeds of 300K to 500Kbit/sec. and a peak rate of 2.4Mbit/sec. The service will be based on the cellular stan dard Code Division Multiple Access (CDMA) Evolution Data Only (EV-DO), which is the same technology Verizon

Wireless is using Coverage vs. Speed

For George Bishop. IT director at Xeel Pharmaceuticals Inc. in San Diego, wide geographic coverage is more important than superfast data rates. Xcel has equipped about 20 staffers with EV-DO data cards, but Bishop said Xcel chose Bedminster, N.I.-based Verizon Wireless as its cellular data carrier because it provides better coverage nationwide than its rivals

He added, though that be looks forward to Verizor Wireless extending the reach of its EV-DO service beyond test markets in San Diego and Washington, That will let Xcel's users in other parts of

the country take advantage of the high-speed throughout so access e-mail and do research on the Internet, Bishop said. Craig Mathias, an analyst at Farpoint Group in Ashland. Mass, said Sprint PCS an-

pounced its EV-DO plans in response to competitive pressure from Verizon Wireless. He added that the move marks an acceleration of the high-speed data plan that Sprint PCS had announced previously, plus a shift in technology

Last July, Sprint PCS sagned a SI billion deal with Lucest Technologies Inc. for network hardware designed to support CDMA Evolution-Data Voice (EV-DV) technology. Overland

First Online Data Privacy Law Looms in California

Most companies already set for AB 68, experts say

BY JAIKUMAR VIJAYAN The nation's first privacy law that specifically targets online businesses will go into effect in California on July I. But it's unlikely to cause many problems for companies, because most of the privacy requirements stipulated by the law are already in place at commercial Web sites.

The Online Privacy Act of 2003 (Calif. AB 68) was authored by Joseph Simitian, a member of the California State Assembly Under the law, any online business that collects personally identifiable informotion from California residents is required to take steps such as posting its privacy

policy and notifying con-

New Cellular **Network Plans**

samers about what kinds of

it will be used

data will be gathered and how

The law is structured so

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vacy statements," said Kirk Herath, chief privacy officer at Nationwide Mutual Insurance Co. in Columbus. Ohio. "They

just need to make sure that their old statements contain all of the elements of the new

Not as Threatening

The bill isn't as "threatening" as other California neivaev laws, such as the SB 1386 Database Breach Notification Act and the pending SB 1279 measure that toughens the scope of SB 1386, said a user at a finantial services company who

requested anonymity Part of the reason may be that the original bill had been watered down quite a bit before being passed, he said According to Simitian, there was heavy industry opposition to some of the bill's initial

provisions. The strongest obicctions were over a provision that required companies to maintain a history of their

privacy policies, he said. © 47745

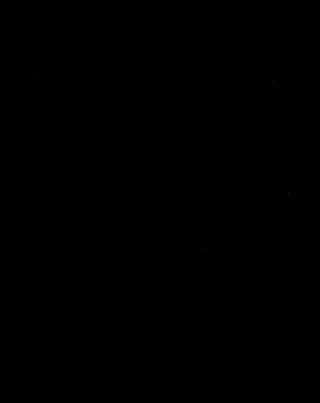
last week said future upgrades of its network will include EV-DV after equipment supporting the technology becomes available, likely in 2006. Atlanta-based Cingular Wireless said it has issued a request for proposals to net-

Park, Kan.-based Sprint PCS

working equipment vendors looking to support its advanced data services, which will be based on the Universal Mobile Telecommunications System standard, Hamish Caldwell, an executive at Cingular, said the company plans tu test a UMTS network this summer in Atlanta UMTS has an average

throughput of 384Kbit/sec But Cingular also plans to deploy an enhanced version called High Speed Downlink Packet Access, with data rates of up to 14.4Mbit/sec.

After Cingular completes its acquisition of AT&T Wireless Services Inc. later this year, it could also take advantage of UMTS installations planned by that company, Caldwell said. O 67780



BRIEFS

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Cell Carriers Engage in High-Speed Data Race

Cingular, Sprint PCS, Verizon Wireless all promise faster mobile networks

TIDESPREAD DOtional coverage for high-speed cellular data services edged closer to reality last week, as Cingular Wireless and Sprint PCS Group separately announced plans to deploy new broadband networks

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policy and notifying con-

sumers about what kinds of data will be gathered and how it will be used

The law is structured so that anyone can bring an "individual course of action" against companies that fail to comply. Simitian said

The AB 68 legislation formalizes what most online businesses have been doing for some time anyway, said Christopher Pierson, a partner at Lewis and Roca LLP, a law firm in Phoenix. Previously, consumers had to take action such as filing a complaint with

the Federal Trade Commission or suing a company under unfair business practice laws to address an online privacy breach, Pierson said. From an IT standpoint there is little that companies

have to change. "Most companies doing

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Growing competition could result in lower costs, better service for users

DY PATRICK THIRDDEAN

services firms based in tridicare adding sophisticated con oliving services in an effort to compete directly with the major 11 consulting firms. At the same time. U.S. based providers are expanding their off

There is no doubt that the race is on," said Stephen Pratt. head of Infoses Consulting Inc., which was formed in April by India-based Inforces Technologies Ltd. "It's no secret that the winning model will be high-end husmess con sulting combined with high quality, low-cost technology

delivery done offshore? For users of these services. the twin developments likely will mean increased competi-

tion - and potentially better pricing - as offshore develop ment becomes a standard part of any outsourcing offering by U.S -based companies

Cost Considerations

Increasingly, the decision about which vendor to use 'comes down to cost," said Don Weiner, managing director and global head of technolout at Deutsche Bank in New York. "Let competition dictate who gets the husiness," said Weiner, in response to a reence on how emerging trends may shape the offshore II market. The event way sponsoned by the Information Technology Association of America and Nasdaq Stock Market Inc.

Weiner said he takes the view that cost is the key factor hocause his company uses an Indian firm only for commodity IT services, such as applica-

architecture, design and projcut management expertise But he added that he expects providers in India to gain increased IT skills, which should help them improve the level of services they can de-

Pratt said the Infosys Consulture unit non has 150 cm. ployees in the U.S. and would 500 within three years. However, India-hased workers who provide everything from technical expertise to competitive analysis for chante will do a large part of the work, and Pratt said he sees Infosys' ability to leverage the law costs of

tage for his compan But the move by U.S. based fT and husiness consulting firms to expand their offshore operations may belp level the IBM in April announced plans to buy India-based Daksh eServices Pvr. a 6.000-em-

plower firm that does business process outsourcing work The differences between domestic and offshore IT services firms are blurring said Stan Lepcak, an analyst at Meta Group Inc. The decision for users now "is not whether I should be onshore or off-

shore," Lepeak said, "ft's what firm has the best carabilities." But both U.S. services firms and companies based in India have big transition risks." said Gregory Gould, an analyst

at Goldman Sachs & Co. in New York Domestic firms face a "very traumatic" restructuring as they boost the

amount of work they do offbe identified, added that work ers in the company's IT deportment claim to be "too busy

putting out fires" to help with Section 404 documentation Other attenders said IT professionals often lack un under standing of auditing procedures and concepts such as application controls 78 by of Pl people struggle with these terms because they're audit centric terms," noted Paul Zonneveld, a senior manager at

Deloitte & Touche LLP's enterprise risk services consulting practice in Calgary: Alberta. Marathon Oil Corp. encoun tered that problem last sum-

mer. When the Houston-based energy services company began documenting its financial controls, the IT department tried to develop its own controls framework. But that approach "didn't quite out it" because the IT group didn't have a firm grasp of control objectives, said Barbara Brooks. manager of accounting controls at Marathun

With the help of Marathon's

H-1B Increase Faces Stiff Resistance

The political attack against offshoring isn't letting up. Bills that could restrict offshore IT work have been introduced in 37 states and efforts to increase the lederal H-1B was cap aren't making headway

Phil Bond, undersecretary for technology at the U.S. Department of Commorce, last week said H-18 supporters must make a strong case for an increase, perboularly in light of the record levels of unemploy ment engineers are facing. The need is going to have to be real." Bond said at last week's

ITAA/Nasdag conference. This year's can of 65 000 visas was reached in February and companies have already begun submitting applications urging passage of a full infroduced by U.S. Rep. Lamar Smith (R-Texas) that could boost the cap by 20 600 years by exempting U.S. university graduates with a master's degree or higher from the limits. In this atmosphere, doing

for the fiscal year that begins

Oct. 1, High-tech companies are

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anchino on immoration is diffcult," said Lynn Shotwell, direcfor of povernment relations at the American Council on International Personnel, which backs Smith's bill. Shotwell said many companies planned shearl and were able to meet their H-18 needs for the current fiscal year But, she added, "next year might be a different stuation

- Patrick Thibodeau shore, he noted, while the

more by offshore firms into more complex lines of business is fraught with the potential for failure O 47786

& Touche, the IT department was able to develop a controls template based on the ISACA's COBIT methodology last Octoher added Brooks Rich Russell, director of application development at Her-

man Miller Inc., said he and orbor PT exoffers or the Zon. land, Mich., maker of office furniture have been beloing its audit deturtment identify and document IT controls since the fourth quarter of last year. "I don't see how IT can't be involved," he said. "Not being actively involved is really putting

the organization at risk.

Refusine to assist with documentation work could also have dire consequences for some IT executions. Such a refusat played a role when one CIO lost his job last year, said an audit manager who requested anonymity. The manaper said the CIO was pressured into resigning, in part because IT had a number of notstanding audit issues and he wasn't willing to address them, claiming the IT depart

accounting group and Deloitte ment was too hosy." O 47728

Sarb-Ox Projects Still Lack IT Involvement, Auditors Sav

BY THOMAS HOFFMAN

For many of the attendees at a Sarbanes-Oxles Act compliance conference held here this month, getting technology managers and staffers involved in the process of documenting internal IT controls is turning out to be a his challeney In an informal polt, roughly bulf of the 250 or so attendees

indicated via a show of hands that their IT departments have been relactant to beln corno rate auditors document (F controls in order to most the Section 404 requirements of the financial-reporting law.

Some auditors who were at the conference, which was organized by the Rolling Meadows. Iti-hased information Systems Audit and Control Association (ISALA) cited on inability or unwillingness on the part of IT stations to step away from managing day-to-

"Our IT staff inst doesn't want any part of our controls documentation work," said an IT auditor at a large retailer that's based in the Northeast.





Offshore, U.S. IT Services Firms Go Head-to-Head

Growing competition could result in lower costs, better service for users

APIDLY GROWING IT services firms based in India are adding sophisticated consulting services in an effort to compete directly with the major IT consulting firms. At the same time, U.S.-based providers are expanding their offshore operations to cut costs. "There is no doubt that the race is on," said Stephen Pratt, head of Infosys Consulting Inc., which was formed in April by India-based Infosys Technologies Ltd. "It's no secret that the winning model will be high-end business con sulting combined with highquality, low-cost technology

delivery done offshore." For users of these services, the twin developments likely will mean increased competition - and potentially better pricipe - as offshore development becomes a standard part of any outsourcing offering by

U.S.-based companies Cost Considerations

Increasingly, the decision about which vendor to use "comes down to cost," said Don Weiner, managing director and global head of technology at Deutsche Bank in New York. "Let competition dictate who gets the business," said Weiner, in response to a reporter's question at a conference on how emerging trends may shape the offshore IT market. The event was spon sored by the Information Technology Association of America and Nasdaq Stock Market Inc.

Weiner said he takes the view that cost is the key factor because his company uses an Indian firm only for commodity IT services, such as application maintenance, while re-

taining all the subject matter. architecture, design and project manusement expertise But he added that he expecta providers in India to eain increased IT skills, which should help them improve the level of services they can de-

liver to users Pratt said the Infosys Consulting unit now has 150 em ployees in the U.S. and would like to expand that number to 500 within three years. Howeyer. India-based workers who provide everything from technical expertise to competitive analysis for clients will do a large part of the work and Pratt said he sees Infosys' ability to leverage the low costs of tage for his compar

firms to expand their offshore operations may help level the playing field. For instance, IBM in April announced plans to buy India-based Daksh

process outsourcing work. The differences between domestic and offshore IT services firms are blurring said Stan Lepeak, an analyst at Meta Group Inc. The decision for users now "is not whether I should be onshore or offshore," Lepeak said. "It's what

firm has the best capabilities." But both U.S. services firms and companies based in India "have big transition risks." said Gregory Gould, an analyst

offshore work as a key advan But the move by U.S.-based IT and business consulting

the federal H-1B visa cap aren't Phil Bond, unde technology at the U.S. Depart ment of Commerce, last week said H-18 supporters must move a strong case for an in eServices Pvt., a 6,000-emsse, perticularly in light of the record levels of unem ployee firm that does business ment engineers are facing. "The

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at Goldman Sachs & Co. in New York. Domestic firms face a "very traumatic" restructuring as they boost the amount of work they do off-

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that their IT departments have been reluctant to help corporate auditors document IT controls in order to meet the Section 404 requirements of the financial-reporting law. Some auditors who were at

the conference, which was organized by the Rolling Mendows, Ill.-based Information Systems Audit and Control Association (ISACA), cited an inability or unwillingness on the part of IT staffers to step away from managing day today technology operations. "Our IT staff just doesn't want any part of our controls

documentation work " said on IT auditor at a large retailer that's based in the Northeast The auditor, who asked not to

> IT Managers Should ...

be identified, added that workers in the company's IT department claim to be "too busy putting out fires" to help with Section 404 documentation Other attendees said IT professionals often lack an understanding of auditing procedures and concepts such as application controls. "A lot of IT people struggle with these terms because they're audit

centric terms," noted Paul Zonneveld, a senior manager at Deloitte & Touche LLP's enterprise risk services consulting practice in Calgary, Alberta. Marathon Oil Corp. encountered that problem last summer. When the Houston-based

energy services company began documenting its financial controls, the IT department tried to develop its own con-trols framework. But that anproach "didn't quite cut it" because the IT group didn't have a firm grasp of control objectives, said Barbara Brooks, manager of accounting con-

trols at Marathon. With the help of Marathon's

accounting group and Deloitte

& Touche, the IT department was able to develop a controls template based on the ISACA's COBIT methodology last October, added Brooks.

Rich Russell, director of application development at Herman Miller Inc., said be and other IT staffers at the Zecland. Mich., maker of office furniture have been helping its audit department identify and document IT controls since the fourth quarter of last year.
"I don't see how IT can't be involved," he said. "Not being actively involved is really putting the organization at risk. Refusing to assist with documentation work could also have dire consequences for some IT executives. Such a re-

fusal played a role when one CIO lost bis job last year, said an audit manager who re quested anonymity. The manager said the CIO was pressured into resigning, in part because IT had a number of outstanding audit issues and he wasn't willing to address them, claiming the IT de ment was too busy." O 47728

COMPANIES THAT PUT VOICE ON THE NETWORK CHOOSE THE COMPANY THAT BUILT THE NETWORK

When vice jorns date on a secure network, some remarkable throps can happen, Instead of managing different flavor of PBK from bostom to location, you have had been windle every find once piles, as when we are non-more networking experiences, Closo has been can be asked as a first a flavor. And you not 27 years of promine networking experiences, Closo has been can be asked as for mallical of vices IT users around the world IT as who not real of the Global SOR have chosen Cocks to extend the contract of the



CISCO SYSTEMS

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agers and other IT staffers The American National Standards Institute, the U.S. representative to the Genevabased ISO, announced that the standards bodies are granting certificate accreditation to the Certified Information Systems Security Professional creden tial. Roy Swift, an ANSI program director, said CISSP is the first IT certification to be accredited under ISO IFC 17024, a global benchmark for

workers in various profession The accreditation will be refully give CISSP a shot in the arm, said Christoter Hoff, director of enterprise security services at Western Corporate Federal Credit Union, a San Dimas. Calif-based company with \$25 billion in assets While broadly accepted as a benchmark credential, it's still viewed in some circles as be-

Continued from page I which was held by the inde-**PeopleSoft** pendent Quest International User Group.

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Madison It's made hiring more confocine at times, as we need to weigh the strengths of different certifications against each other" Milford and The una versity now plans to require security professionals to have CISSP condentials in order to

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The ISO as (ISC). Although it's just one accreditation of several similar certifications will likely help dispel notions that the CISSP certification is meaningless.

ANDREW PLATO, PRESCENT

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To qualify for CISSP certification, security professionals need to have either four years of work experience or a three year college degree in a related field, said James Duffy, executive director of (ISC) They must also pass a six-hour exam designed to test their knowledge of technology and business issues related to in-

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how to better evoluin why it appears that prices are going up without a concomitant increase in value." Greenbaum

added. William Gabby, North American operations manager at Cargill Inc.'s Global Financial Solutions unit in Minnetonka, Minn., didn't attend the conference. But Gabby: whose unit is a J.D. Edwards user, said he also has concerns about PeopleSoft's approach to software licensing. "Pricing definitely has been the most challenging philosophical difference between the former two companies," he said. "We're still working through

this area." O 47778 DDITIONAL CONCERNS Quest members said they're also weetling with tales force and support issues

OpickLink 47808



Continued from page 1 CISSP

time when companies are increasingly being asked by their boards of directors and by auditors and regulators to prove that they have done due diligence on all matters related to IT security - Including the hiring of security man-

agers and other IT staffers. The American National Standards Institute, the U.S. representative to the Genevabased ISO, announced that the standards bodies are granting certificate accreditation to the Certified Information Systems Security Professional credential. Roy Swift, an ANSI program director, said CISSP is the first IT certification to be accredited under ISO/IEC 17024, a global benchmark for workers in various professions

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The CISSP credential is awarded by International Information Systems Security Certification Consortium Inc.,

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NEWS

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DOITHONAL CONCERNS

Continued from page I **PeopleSoft**

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which was held by the inde pendent Quest International User Group. Schnitzer runs the Enter-

priseOne financial applications and has been approached by PeopleSoft about switching to its pricing model, which is based on a customer's annual revenue. But Pond said that he hasn't yet adopted People-Soft's model and that doing so would increase Schnigger's annual software maintenance fees by about 25%, "I have no ROI for this," he said

Getting information from PeopleSoft about pricing and the so-called contract-fusion program aimed at getting J.D. Edwards users to change pricing methodologies has been a frustrating process, Pond added. He said that from what he has been told by other users individual PeopleSoft sales representatives have takon different approaches to negotiations. "I can't figure out any rhyme or reason to it." Pond said.

'A Hard Message' The Weitz Co., a cor firm in Des Moines that this year will see revenue of more than \$1 billion, faces a 30% increase in licensing costs if it switches to PeopleSoft's pricing model, said CIO Mark Fedcrie. Like Pond, Federle said he

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said be expects the vendor to let users keep their existing licensing if they wish to do so.

In a statement sent via e-mail, PeopleSoft said it is committed to customer choice. Customers are able to choose the pricine model that

hest fits their needs and busi ness." No I.D. Edwards users will be required to shift from user-based pricing to the enterprise licensing approach, the company added. People-Soft declined to make any officials available for an interview about the pricing issues Joshua Greenhaum, an ana-

lyst at Enterprise Applicat Consulting in Berkeley, Calif., said the unhappiness and concerns about increased costs uniced by users at the Owest conference are "a problem that needs to be resolved" by PeopleSoft.

"At a minimum, PeopleSoft needs to educate its custor about the specifics of licens ing and its sales force about



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MARK HALL

Secrecy Eating at Apple

HREE AND A HALF years ago in this space I wrote, "Today, there's no reason for IT managers to consider the Mac in their product plans, which is appropriate since Apple doesn't think of them either."

I was wrong. The truth today is far different. Apple Computer's technology is not just a credible choice for corporate IT. It's often the most cost-effective and best-performing option. You just don't know it because in some messure analysts and journalists covering enterprise computing wrote off Apple a long time ago.

Consider the following exercise: Visit Computerworld.com and type "OS X" into our search engine. As of last week, that would have turned up 340 hits. One of our competitors, Information Week.com, delivers a paltry 64. A query for "Windows XP," a newer operating system than Mac OS X. vields 871 results on our site; our competition sets you a mere 374 A search on "Linux" provides 3,222 and L549 hits, respectively. What this tells me (besides that Computerworld has vastly better coverage than the other guys) is that IT icornalists

tend to overlook Apple's technology. Many CIOs subscribe to analyst firms' research to get the lowdown on vendors' technology in order to make informed choices about how one company's products will fit into their overall IT plans. You've got a cornucopia of options for in-depth analysis on Hewlett-Packard, IBM, Microsoft and Sun Microsystems. but precious little strategic analysis on Apple and its offerings.

But yammering reporters and analysts aren't the only ones to blame for a lack of IT-related coverage of Apple. Fingers must also be pointed at 1 Infinity Loop, the company's Cupertino, Calif., headquarters. Like its pretentious address, Apple's haughty attitude simply annovs people. Microsoft has modesty either and cao it will bend over backward to get you product information, particularly about future plans. So much so, it's considered the world leader in FUD

- the fear, uncertainty and doubt it inspires throughout the industry as it details what's on its drawing boards is more than enough to make IT managers hesitate before moving to another vendor's technology. But

ooe IT manager's FUD is another's strategic planning tool. Apple, in contrast, has mastered the art of FAPP - forget Apple for product planning. The company's "loose lips sink ships" attitude works well for its consumer market, where preannouncing a cool new gadget

never been known for its certainly be irksome. But world of corporate IT. CIOs seldom make infrastructure investments without a deep understanding of a vendor's long-term strategy. And Apple refuses to reveal much, if anything, about its plans. That's a real shame, because with

the Xserve, Apple is delivering one of the most powerful, low-cost, easyto-manage Unix servers on the market. But you probably doo't have any in your shop because when Apple announced the Xserve in 2002, you really didn't know how committed the company was to the product line, since it refused to talk futures. And you certainly didn't know about the 50 advanced management features it'll ship for them next month. Combined with Apple's no-client licensing fees, easy-to-run Xserves would have been the best-perform

ing, lowest-TCO machines in your data center. But you didn't know that, so you bought more Linux, Solaris or Windows systems instead. Certainly, the IT media's indifference to Apple has burt the company's standing with CIOs. But Apple's obsession with secrecy has diminished it and IT's technology options even more. O 47741

Maryfran Johnson is on vacation. Her

can kill the sales of your suddenly has-been widget. But in the serious column will return in the July 12 issue. WE WOULD HAVE ASKED YOU TO E-MAIL YOUR COMPLAINTS ABOUT SOFTWARE PRACY AND TRADE BARRIERS, BUT WE WERE WORRIED ABOUT THE SECURITY OF OUR SYSTEMS.

DAVID MOSCHELLA

Why Business Leaders Ignore You . . .

TOU'VE surely heard these complaints many times before: Too often. IT people speak in impenetrable iarcon, love technology for its own sake and aren't grounded in what really matters to the business. While these characterizations may be stereotypes. they're not totally unfair

But the other half of the story isn't heard nearly as often. Business people need to be much more fluent in IT. The reality is that whether business leaders are in sales, marketing, product development, customer service, finance or just about any other compa function, they need to have a wellgrounded sense of what IT can and cannot do, and this requires some actual knowledge, Unfortunately, many business people simply don't have encueh of it

IT people often get the blame for the ack of strategic IT alignment, for proj ects that don't meet real business needs and for the west cultural divide that can exist between the IT organization and the rest of the company But in my experience, business neople are at least cous ly at fault, and often

more so. In many companies, the un derlying culture is one in which business leaders can get away with ignor-

ing what's going on in IT The reasons for this are peetry clear Working life is already tough enough, and for most people, learning about complex IT systems isn't exactly easy or fun. In addition, IT systems can take many employees, especially executives, out of their comfort zones and expose gaps in their skills and knowledge that many of them don't want to acknowledge. It's much easier to just believe, for example, that determining the way IT applications should be structured or naging the inevitable trade-offs between IT cost and functionality are really just problems for the IT group.

Business people can get away with this nonsense because in most compaoies, they shape the company culture and have most of the actual decisionmaking votes. Consequently, if a company culture emerges where most forms of IT complexity are instinctive-

ly viewed as an IT problem, there's often not much that the IT department can do. IT management lacks the authority to overcome what can amount to an unspoken conspiracy in which business people essentially say to one another, "I won't get too involved in this IT stuff if you don't."

These underlying attitudes explain why so many executives found Nicholas Carr's "IT Doesn't Matter" stuff so irresistible. It's exactly what they wanted to hear, because it reinforced their subconscious wish to be able to shun any real responsibility for IT decision-making. If IT doesn't matter, then why should I hother to learn shout it? Of course, this is all just a form of denial. In most companies, IT matters more than ever, and business leaders

usually can't do their jobs without a deep understanding of what's going on in IT. If more CEOs would simply stand up and demand such knowledge. the jobs of IT professionals would get easier and, more importantly, companies would have a much better chance of showing why IT really matters after all O 47659

VIRGINIA ROBBINS

... And Networkers Ignore Them

Y FRIEND and I shielded our eyes from the setting sun as we waited for the graduation ceremony for the University of California. Berkeley's Haas School of Business to begin. She had just returned from six ths in a new position as a COO in Hawaii, and I was interested in what life was like in paradise. After covering the standard topics - air conditioning (not used by the natives), flowers (stunning) and gas prices (lower than in San Francisco), she asked me if I had read "IT Doesn't Matter

Yes, I had read the Harvard Busi Review article, Moreover, it felt as if every technology publication had run an editorial, commentary or other critique of the piece with the same basic

response: IT does matter. because the technical level. ership required for success is not yet a commodity.

My friend turned toward me, threw up her hands and fervently agreed. Her com pany was small but had a network spread across multiple locations. To ber, it seemed impossible to find and retain a good businessfocused technology manager. She had tried a oumb of consultants, and every

I wished her back

one of them was primarily intere selling her hardware. The staffers that she had managed to retain were the relatives of key customers, and while they did know a great deal about the business, they seemed to have a difficult time keeping the e-mail servers virus-free and the consultant fees to a level that she felt was affordable

Of all the various tech managers, the group that always seems to pride themselves in not understanding the business is networking managers, Kind, sensitive business-savvy help desk managers, upon earning their MCSEs, morph overnight into arrogaot, "ir works on my equipment, technocratic despots OK, before you start e-mailing me, not all of

them make this transition. But even I did for a while, until I saw the error of my ways. With the sun still in her eyes, my I began to wooder wby this happened

friend turned to speak to our hosts and - why do so many good network managers appear to lose their business savvy? Maybe it's all that time enent patching servers, scanning TechNet

they have accidentally blocked key c-mails from a new client at the law firm of Abreast, Skin and Hambrixxx Or maybe it's because they have recrived one more hastily approved socurity request to add 27 temporary employees to the network today, only to have the project canceled and the temps sent bome by noon. I hope that as CIO I never have to

ask my networking managers to do anything that I wouldn't do. I hope that am able to encourage them to cootinue learning how and why our business makes money. Moreover, I realize that I need to make sure that in between the patches and security requests, I include my network managers in the same business briefings as the devel-

opment managers. © 47663

WANT OUR OPINION? More columneds and links to archives of previous columns are on our Web site:

and battling spam only to find out that

Counting the Vote

THE call for voter-verifiable paper receipts is playing on the fears. technical issues and esset to boild something in their hands before then will believe that it is real or accurate ("SOM Electronic Votes Could Be insecure. Say Renearchers, * Quick-Link 46750]. As someone who has witnessed the volidation of oncer voting rolls. I can tall you that paper

is cumbersome and an encourage One potential solution would be to have two securate systems occur ating on two different operating systems and hard-cabled together with a serial communications link. One system would record the vote in the booth on its internal sestem and communicate the result to the secand system, which would record the result on independent WORM media after being verified by the voter The two marchines' results could be

easily compared after the polis closed. The two systems could be made by different vendors, which would take care of the accurrent that one company can't be trusted to record the votes accurately. Chuck Ballard Senior engineer, Allentown, Pa.,

S A COMPUTER Security pro-A less south actively involved in

chballard@mailblocks.com

READERS' LETTERS the e-voting (or "direct recording onic voting") controversy. I mad the article TEAA Blasts F-vot-

no Critic, Calls Testmony Misleading" [Queckl risk 46763] with creat interest. I was disappointed in ITAA. President Harris Miller's statements regarding the analysis of professo An Rubin of Johns Hookins Universi by it is not only Rubin but also hundreds of other computer security and computer science professionals who on resum fire bits where the encursive of DREs. in fact, almost 2,000 technologists have signed a perhior consored by professor David Dill of Stanford University calling for votervenfied paper audit traits. The sione

tories, who can be found at www oling.org.am united in their understanding that software is insufficiently reliable for use in voting applications.

Opposition to pagerless DREs is a bigartisan issue. Where I live in Farby County Vo. wouse AMS Weldoor DREs My analysis of the WinVole systems last summer found meny ierrs similar to those shoulded by Rubin in the Diebold systems in Maryland, A failure in the WinVote systems, just November left the results of a Fairfax County election questionable when a Requisitory candidate lost by a mergin of about 196 in an election where approximotely 2% of the votes may have

been recorded incorrectly. As a re-

convenies comment firs to be a De-

mocratic issue changed their tune. and some are filing lowersts emisses to force states and localnes to move away from paperless DREs. Miles would be well advised to understand the issues rather than report to ad homeon attacks on Rutan II pointno out the obvious is valing "Fire!" (as Miller accuses Rubin of doing). then all voters should be velling. "Firef" at the top of their lungs. Jeremy Epstein

Senior director, product security webMethods for Fairfax, Va., jepszein@ webMethods.com

Code Theft No Issue

WE IN THE IT industry have been led astray by the entur merable security holes in Micro soft's operating systems. We start recolution beautation with restal ny. Linux and the BSD Unix venants all have the source code open to the middle. They are no less stable than Microsoft because of that A system that is well set up and configurari will be stable and so

cure. A slocov Linux configuration will be full of holes. The same is true of Cisco IOS implementation When set up correctly with access liets and livewalls out to the interret, network beckhore compo-

neets are terrifically stable and rulable. With a stoopy, straight-out-ofthe box configuration the user will deservedly have security and stabilty cause. There's no magic in Claco IOS: if is pust a well-written, comple and well-supported tool. The theft of IOS source code is a commercial concern for Clean Another correct could attempt to gain competitive adventage by using Ceco research as if appears in the source code to augment its own operating system for routers or swetches. The sky is not faling and your editorial cartoon in the May 31 easue would be more as propriete in an internal Cisco publication. The same is true for all the articles and discussion concerning the source code their

Dick Heyman Network engineer. city of Fort Collins, Colo.

COMPUTERWORLD welcomes comments from its moders. Letters will be edited for brevity and clarity They should be addressed to James Eckle letters editor, Computerworld PO Box 9171, 500 Old Connecticut Path, Framingham, Mass. 01701. For (508) 879-4643 F-mail letters/Roomsuterworld.com forbyte an aristours and obnou num.

ber for immediate verification.



Secrecy Eating at Apple

HREE AND A HALF years ago in this space I wrote, "Today, there's no reason for IT managers to consider the Mac in their product plans, which is appropriate since Apple doesn't think of them either"

I was wrong The truth today is far different. Apple Computer's technology is not just a credible choice for corporate IT It's often the most cost-effective and best-performing option. You just don't know it because in some measure analysts and journalists covering enterprise computing wrote off Apple a long time ago. Consider the following exercise:

Visit Computerworld com and type

"OS X" into our search engine. As

of last week, that would have turned

up 340 hits. One of our competitors.

newer operating system than Mac

OS X, vields 871 results on our site:

our competition gets you a more 374.

world has vastly better coverage than

the other gass) is that IT iournalists

tend to overlook Apple's technology.

Many CIOs subscribe to analyst

A search on "Linux" provides 3,222

tells me (besides that Computer-

attitude simply annoys people. Microsoft has

never been known for its modesty either and can certainly be irksome. But it will bend over backward to get you product information particularly about future plans. So much so, it's considered the world leader in FUD the fear, uncertainty

and doubt it inspires throughout the industry as it details what's on its drawing boards is more than enough to make IT managers hesitate before moving to another vendor's technology. But

one IT manager's FUD is another's Information Week.com, delivers a palstrategic planning tool. try 64. A query for "Windows XP," a Apple, in contrast, has mastered the art of FAPP - forget Apple for product planning. The company's "loose lips sink ships" attitude works well for its consumer market, where and L549 hits, respectively. What this preannouncing a cool new gadget

can kill the sales of your suddenly has-been widget. But in the serious world of corporate IT, CIOs seldom make infrastructure investments without a deep understanding of a vendor's long-term strategy. And Apple refuses to reveal much, if any

thing about its plans That's a real shame, because with the Xserve. Apple is delivering one of the most powerful, low-cost, caseto-manage Univ servers on the market. But you probably don't have any in your shop because when Apple announced the Xserve in 2002, you really didn't know how committed the company was to the product line. since it refused to talk futures. And you certainly didn't know about the 50 advanced management features it'll ship for them next month. Com-

bined with Apple's no-client licensing fees, easy-to-run Xserves would have been the best-performing lowest-TCO machines in your data center. But you didn't know that, so you bought more Linux. So-

laris or Windows systems instead. Certainly, the IT media's indifference to Apple has hurt the compa ny's standing with CIOs. But Apple's obsession with secreey has diminished it and IT's technology options even more, O 47741



Why Business Leaders Ignore You . . .

www.computerworld.com

OU'VE surely heard these complaints many times before: Too often. IT people speak in impenetrable iamon, have technology for its own sake and aren't unwoulded in what real ly matters to the business. While these characterizations may be stereotypes,

they're not totally unfair But the other half of the story isn't heard nearly as often. Business people need to be much more fluent in IT. The reality is that whether business leaders are in sales, marketing, product development, customer service, G. nance or just about any other company function, they need to have a wellgrounded sense of what IT can and cannot do, and this requires some actual knowledge. Unfortunately, many

business people simply don't have enough of it IT people often

lack of strategic IT allenment, for projects that don't meet real business needs and for the vast cul-

more so. In many companies, the un derlying culture is one in which business leaders can get away with ignor-

ing what's point on in IT The reasons for this are pretty clear. Working life is already tough enough, and for most people, learning about complex IT systems isn't exactly easy or fun. In addition, IT systems can take many employees, especially executives. out of their comfort zones and expose gaps in their skills and knowledge that many of them don't want to acknowleduc. It's much easier to just believe. for example, that determining the way IT applications should be structured or managing the inevitable trade-offs brtween IT cost and functionality are really just problems for the IT group.

act the blame for the

exist between the IT organization and the rest of the company Maryfran Johnson is on vacation. Her But in my concrience, business peoculumn will return in the July 12 iccur. ple are at least conalby at foult and often

firms' research to get the lowdown nn vendors' technology in order to make informed choices about how one company's products will fit into their overall IT plans. You've got a cornucupia of options for in-depth analysis on Hewlett-Packard, IBM, Microsoft and Sun Microsystems, but precious little strategic analysis on Apple and its offerings

But yammering reporters and analysts aren't the only ones to blame for a lack of IT-related coverage of Apple. Fingers must also be pointed at 1 Infinity Loop, the company's Cupertino, Calif., headquarters. Like its pretentious address, Apple's haughty

Business people can get away with this nonsense because in most companies, they shape the company culture and have most of the actual decisionmaking votes. Consequently, if a company culture emerges where most forms of IT complexity are instinctively viewed as an Ul problem, there's often not much that the IT department can do. IT management lacks the authorsty to overcome what can amount to an unspoken conspiracy in which bustness people essentially say to one another, "I won't get too involved in this IT stuff if you don't."

These underlying attitudes explain why so many executives found Nicholas Carr's "IT Doesn't Matter" stuff so irresistible. It's exactly what they wanted to hear, because it reinforced their subconscious wish to be able to shun any real responsibility for IT decision-making. If IT doesn't matter, then why should I bother to learn about it? Of course, this is all just a form of denial. In most companies, IT matters more than ever, and business leaders usually can't do their jobs without a deep understanding of veltat's going stand up and demand such knowledge.

on in IT. If more CEOs would simply the jobs of IT professionals would get easier and, more importantly, companies would have a much better chance of showing why IT really matters after

VIRGINIA ROBBINS

. . . And Networkers Ignore Them

Y FRIEND and I shielded our eyes from the setting sun as we waited for the graduation ceremony for the University of California. Berkeley's Haas School of Business to begin. She had just returned from six munths in a new position as a COO in Hawaii, and I was interested in what hie was like in paradise. After covering the standard topics - air conditioning (not used by the natives), flowers (stunning) and gas prices (lower than in San Francisco), she asked me if I had

Yes, I had read the Harvard Business Review article. Moreover, it felt as if every technology publication had run an editorial, commentary or other critique of the piece with the same basic

read "IT Doesn't Matter"

because the technical leadership required for success

My friend jurned toward me, threw up her hands and tervently agreed. Her company was small but had a network spread across mul tiple locations. To her, it seemed impossible to find and retain a good businessfocused technology manage er. She had tried a number

of consultants, and every one of them was primarily interested in selling her hardware. The staffers that she had managed to retain were the relatives of key custumers, and white they did know a great deal about the business, they seemed to have a diffi cult time keeping the compil servers virus-free and the consultant fees to a level that she felt was affordable.



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Or all the various tech

technocratic desputs OK, before you start e-matling me, not all of them make this transition

But even I did for a while, until I saw With the sun still in her eyes, my friend turned to speak to our hosts and

I began to wonder why this happened opment managers. O 47663 - why do so many good network man aters appear to lose their business savyy? Maybe it's all that time spent patching servers, scanning TechNet and battling spam only to find our that

they have a calcumable blacked tax e mails from a new cheat at the law firm of Abreast, Skin and Hambroovs Or maybe it's because they have recoved one more histily approved so curity request to add 27 temporary can plovees to the network today, only to have the propert canceled and the

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WANT OUR OPINION?

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Counting the Vote

I wished her buck

HE call for votes venfiable pages of people who don't understand something in their hands before they will believe that it is real or accurate 1°50M Electronic Waters Could Be Insecure, Say Researchers," Quick-Link 467501. As someone who has witnessed the validation of name voting rolls. I can tell you that paper is combendere and no paracea

One potential solution would be to have two separate systems more along on two different operating parioms and hard-cabled together with a sessi communications link One system would record the vote in the booth on its internal system and and system which would record the result on independent WDRM me. dia after being ventred by the voter The two machines' results could be easily compared after the polis. closed. The two systems could be stade by different vendors, which would take care of the argument fiel one company can't be involved to record the votes accurately Chuck Ballard Sernor engancer, Allentown, Pa.,

chballardia mailblocks.com A S A COMPUTER Security pro-

the e-voting (or "direct recording tiertenic voteni'i controversi. I read the article "ITAA Blasts E-votinn Critic Calls Testimony Mintered uni "10uckLink 45753) with great interest I was disappointed in ITAA President Harris Milar's statements regarding the analysis of professor Ass Richits of Johns Honiums Universi by It is not only Rubin but also hun time, utra case returning metric for stored computer science perfectionals who have prove doubts about the security of DREs. In fact, almost 2,000 tech-

nolosists have signed a picteon sponsored by professor David Dill of Stanford University calling for voterverked paper audit trails. The signatones, who can be found at ways venfedvoting org. are united in their understanding that collusions you.d Egently reliable for use in voting applications

Occasion to panetess DREs is a heartranissie Www.live.inFacto County Vz. we use AVS Win Vote DREs. My analysis of the Win Vote problems similar to those identified by Rubin in the Diebold systems in Mandand A latiture in the WinViste systems last November left the resuits of a Farfay County election merstangable when a Recublic accandidate lost by a moreon of about 19h man election where accords match 2% of the votes may have been recorded incorrectly. As a re-

sult. Republican officials who had proviously perceived this to be a Demodratic issue chanced their tune. and some are filing lawsuits seeking to force states and localities to move away from paperloss DREs. Miler would be well advised to understand the rosars bether than count to adhominem attacks on Rubin If point no out the abways is writing "Fire?" (as Miller accuses Rubin of donor) then all voters should be yelling "Fire!" at the top of their lungs. Jeremy Epstein Senior director, product

security, webMethods Inc. Fairfax Va. senstem a wah Matheuda com

Code Theft No Issue

WE IN THE IT industry have been led astray by the may message security holes in Microsoff's operating systems. We start confusion knowledge with miletid dy I your and the RSO time you. ants all have the source code poen to the public. They are no less stable than Microsoft because of that A system that is well set in and configured will be stable and secure A sloope Linux conhouration will be full of boles. The come is true of Croco IOS implementations

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ments are tevniscular stable and solu able With a sloppy straight-out-of the hos continuation the user will deservedly have security and stabilby assues. There is no maps: in Cisco. IOS it's suist a well-written, complex and well-supported tool. The their of IDS source code is a commercial concern for Cisco Another company could attempt to gain competitive advantage by using Cisco research as if appears in the source code to for routers or seetches. The sky is out falling, and your editorial curtoon in the May 31 sour would be more apconcessor in an internal Cisco multication. The same is true for all the articles and discussion concerning the

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city of Fort Callins, Late

COMPUTERWORLD anicomes comments from its maders. Fathers will be edited for brevity and clarity They should be addressed to Jamie Ecilie letters editor Computerworld PO Box 9171, 500 Old Connecticut Path Framingham Mass 01701 Fax (508) 879-4843 E-mail letters incomputerworld com Include an address and phone num ber in emericate ventration

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TECHNOLOGY

Progress Report

These **four emerging technologies** made a big splash when they gained attention two years ago. Have they finally arrived?



ILE TECHNOLOGIES CONTINUALLY efficies to ake aim at enterprise adoption, few come a significant part of the corps rate IT infrastructure. With that in mind, we thought it was time to check in on some of the technologues we had d in past Emerging Technologies features. Since their introduction, tablet PCs, InfiniBand, server blades and iSCSI have seen their stock rise and fall as each has evolved. Tablet PCs were once touted by vendors as eventual replacements for general-purpose notebooks, but so far they've mainly been used as replacements for proprietary slate devices in vertical markets. And InfiniBand is finally finding a niche in high-performance server clusters. But server blades, which are rapidly moving into the mainstream, may prove to be the biggest success. And iSCSI isn't far behind, as it ushers in an era of low-cost, departmental storage-area networks (SAN). Here's a closer look at

■ Tablet PC Awaits Horizontal Leap While General Motors Corp. and other large compa

how each has fared so far.

nies have piloted tablet PCs as a notebook replacement for general-purpoe computing, most tablet PCs sold to date have been deployed in forms-based, verical market applications, where they often replace proprietary systems. Market research company IDC estimates that tablet PC shipments last year totaled 45,000 units, compared with more than 24 million traditional notebooks.

"The first generation really wasn't ready for widespread deployment," says Tony Scott, chief technology officer at GM, citing problems with digitizer resolution, battery life and the maturity of Microsoft Corp.'s Tablet PC software.

A second pilot of HP Compaq Tablet PCs is nowunder way at GM, and Scott says the hardware has gotten much better. Although pen accuracy and overall system performance have improved, he says, the two-hour battery life is still inadequate.

On the software side, Windows XP Tablet Edition 2005, seebaded to ship with Windows XP Service Pack 2 later this summer, should smoothen some of the rough edges. "Fire support was garfied onto the side of Windows XPI rather than a major change to the internal structure," ssys Data Sunsersky, an analysi at 1DC in Formingham, Mass: The next version will at 1DC in Formingham, Mass: The next version will the particular structure of the structure of the time particular structure of the time particular structure.

IDC expects strong growth in tablet PCs, with units asked solvabiling this year and passing, 50 million by 2008. More than half of those are expected to be lybrid units that include a leybroad as opposed to pero-only date designs. But outside of vericial niches, users may be re-lucant to pop the \$500 to \$600 premism that tablet PCs currently carry over traditional motebooks—an amount that quickly 2004 the pile you've beying brancheds amount that quickly 2004 the pile you've beying brancheds and the purpose of the properties of t

ntinuea on page 20

SHORTLIST YOUR SHORTLIST.



The ultra reliable IBM eServer xSeries 365 system - with powerful Intel* Xeon* processors - can make your work, and IT selection process, easier. With three levels of memory protection and a comprehensive monitoring of key components, it's all about uptime. So you get outstanding reliability when running mission-critical ERP, collaboration and database applications. The works. Management is easier, too. You can have around-the-clock remote access, on demand. And system status can be available even when powered off. For more on highly available, manageable xSeries servers, go to ibm.com/eserver/advantage

5 reasons more and more businesses are turning to IBM eServer. «Serves system» is to the Alexander of the Server.

Scale 1-16 way with select IBM Director systems Linux-ready through management the entire line models Pay as you grow. management



@server

The easy choice, Dependability. IBM eServer xSeries 365 system. Continued from page 23

Scaled-Back

Expectations for InfiniBand

InfiniBand was going to be the universal I/O interconnect to everything in the data councy including network, storage and server-to-server communications. Vendors proclaimed that a single, low-latency, high-speed InfiniBand connection on each server. linked through a "fabric" of switches, would climi nate the need for separate Fibre Channel or Ethernet adapters and associated cabling within and across racks of servers. That vision has yet to become realily. "Support for storage attachments has been slow at best. Support for network communication equipment attachments is virtually nonexistent," says John Enck, an analyst at Gartner Inc. in Stamford, Conn.

But after a few false starts, InfiniBand has found a home as an alternative for server-to-server communication in clusters that are used for high-performance computing and high-end database applications. InfiniBand's very low latency makes it superior to Ethernet for this purpose, and its high speed currently f0Gbit/sec., with 30Gbit/sec. on the way surpasses the performance of Ethernet and other high-performance computing swinched fabrics, such as the 2Gbit see: Myrinet, Several vendors, including IBM, Dell Inc. and Hewlett-Packard Co., how added Infimitand to their cluster server offerings, and RLX Technologies Inc. in The Woodlands, Texas, has an nounced support for InfiniBand on server blades.

As the cost of IOGbit/sec. Ethernet continues to fall. Infinitiand may face increasing competition, especially for less-demanding cluster computing appli-

sted by Big Players

total server market, according to IDC, with most going

But IDC analyst Vernon Turner expects blades to

surge to about 40% of the market by 2008, as IT once

rack-mounted servers for a wider range of applications

offer more compact and powerful designs, as well as

While start-ups isonched the blade server i

expanded UD options. Among the most recent ad-

and a few other horizontally scalable applications

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■ Server Blade Boom

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Server blades made a big sp

INFINIBANO'S LATENCY EOGE InimBand's low end to end latency characteristics compare well with alternatives for interconnecting

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eations. Two technologies could reduce Etherner's latency and processor overhead: TCP offload engines (ToE), which speed processing of TCP packets, and Remote Direct Memory Access, a protocol used in InfiniBand to improve performance by allowing direct memory-to-memory transfers between servers. We're not looking at InfiniBand as the only thing

we're going to do going forward," says Steve Woods. systems engineer at MCNC, a nonprofit research corporation in Research Triangle Park, N.C., that's testing InfiniBand in grid clusters. For now, Infini-Band has the advantage over Ethernet. But, says Enck, "we still view the race between InfiniBand and higher-speed Ethernet us too close to call."

iSCSI Networked Storage Soars After Slow Start

After a slow start two years ago, the Internet Small Computer Systems Interface (iSCSI) protocol is be-

cor: HP is developing a four-way blads based on the teron CPU from Advanced Micro Device Inc. that it mays will support a "bigger memory footprint" than cursigns. And IBM is developing a blade based on its Power CPU architecture and has partnered with other vendors that are offering blade-size Gigsbit Ethernot and Fibre Channel switches that fit into and can be iged as part of its eServer BladeCenter charsis

Blades do have drawbacks. One is heat (see "Moving Toward Meltdown," QuickLink 415661. "Therma are magnified when you have a lot of dense servers. sers are not designed to handle that," says David Lawler, group marketing manager in the network systems group at Sun Microsystems Inc. As a result, mers leave racks half-filled, he says, making the blades less space-efficient. And because every ve dor uses a proprietary chassis, server blades are terchangeable. That has hindered adoption, says Yurn "The reality from a customer perspective is that once you have a chassis, you don't have a lot of choices as to what goes into it," adds Lawler. But Tim Dougher-ty, director of eServer BladeCenter at IBM, doubts mon mers want to mix blades within a chassis. "When I do that, who do I call for service?" he asks. As the technology advances, the benefits of blades will outweigh these concerns, Turner claims. "There's a tremendous opportunity for multiple DSs running inside a single blade enveronment." he says. Blades are likely

ginning to push SANs down from the glass-house data center to departmental servers. The relatively low cost of IP SANs caused demand for iSCSI storage arrays to outstrip supply last year, according to IDC. In a recent IDC survey of 300 corporate buvers. 67% of respondents said they were receptive to buying iSCSI. And the research firm expects iSCSI storage systems to grow quickly, accounting for 22.6% of

the storage systems market by 2007

Like Fibre Channel SANs, iSCSI allows servers to write data to storage arrays as though the devices were directly attached to the server. But unlike Fibre Channel, iSCSI storage systems can use Ethernet eabling, switches and adapters. Fibre Channel still has the advantage in high-performance data center applications, but (SCSI lets administrators create IP SANS for other applications where the expense of dedicated Fibre Channel host bus adapters, fiber-optic cabling systems and storage arrays can't be justified. IP SANs offer substantial savings over Fibre Channel SANs, especially when Serial ATA disks are used, analysts say

Wayne, N.J.-based ECI Conference Call Services LLC already uses Fiber Channel SANs for some applications but CIO B.I. Weschke is using iSCSI storage appliances to support his new Postere SQL database servers. Fibro Channel would have been tran expensive because the servers need to be installed in remote locations. he says. The appliances

47,645 204 944 533,687 966 431 were less expensive, and despite warnings that latency

associated with using a TCP/IP network might require specialized ToE Ethernet adapters, performance of the iSCSI storage arrays has been adequate with standard Gigabit Ethernet adapters. "The pricing is fantastic as opposed to what I would have paid for a Fibre Channel SAN." Weschke says. "The single biggest environment I see iSCSI ad-

dressing today is Windows servers," says David Dale industry evangelist at Sunnyvale, Calif-based Network Appliance Inc., noting that Windows Server 2003 includes native iSCSI support. "ISCSI is making huge inroads into that right now," he says IP SANs could eventually move up the food chain

to challenge Fibre Channel, but for now, the main appeal is in low and midrange servers, replacing direct-attached storage with a single, consolidated pool of networked storage. "I see it surrounding Fibre Channel SANs, making the SAN reach way into the enterprise and not just touching a few servers," says Steve Duplessie, an analyst at Enterprise Storage Group Inc. in Milford, Mass. O 47442

ORE ABOUT THESE TECHNOLOGIES ONLINE

Several vendors say they can solve the issues that limit Ethernel's use as a ch

ECI Conference Call Services uses server blades and ISCSI ances to power its detabase application QuickLink 47435





Continued from page 23

Scaled-Back

Expectations for InfiniBand

aiBand was going to be the universal I/O interconnect to everything in the data center, including network, storage and server-to-server communications. Vendors proclaimed that a single, low-latency, high-speed InfiniBand connection on each server, linked through a "fabric" of switches, would eliminate the oeed for separate Fibre Channel or Ethernet adapters and associated cabling within and across racks of servers. That vision has yet to become reality. "Support for storage attachments has been slow at best. Support for network communication equipment attachments is virtually nonexistent," says John Enck.

an analyst at Gartner Inc. in Stamford, Conn But after a few false starts, InfiniBand has found a home as an alternative for server-to-server commu nication in clusters that are used for high-performance computing and high-end database applica-tions. InfiniBand's very low latency makes it superior to Ethernet for this purpose, and its high speed currently 10Gbit/sec., with 30Gbit/sec. on the way surpasses the performance of Ethernet and other high-performance computing switched fabrics, such as the 2Gbit/sec. Myrinet, Several vendors, including IBM. Dell Inc. and Hewlett-Packard Co., have added InfiniBand to their cluster server offerings, and RLX Technologies Inc. in The Woodlands. Texas. has annced support for InfiniBand oo server blades.

As the cost of 10Gbit/sec. Ethernet continues to fall, InfiniBand may face increasing competition, especially for less-demanding cluster computing appli-

d's low and to-end latency characteristics.

100bit/sec.	7.6 us
20bit/sec.	dus
1Gbit/sec.	60 us
	100bit/sec. 20bit/sec. 10bit/sec.

HEE DAMES, STUDIES K PANDA GHO STAFE DWINESCY STUDY CHIEF 2003 AS CHIEG IS WHITE PAPER PROVIDED BY SWIMMAND cations. Two technologies could reduce Ethernet's

latency and processor overhead; TCP offload engines (ToE), which speed processing of TCP packets, and Remote Direct Memory Access, a protocol used in InfiniBand to improve performance by allowing di rect memory-to-memory transfers between servers.
"We're not looking at InfiniBand as the only thing we're going to do going forward," says Steve Woods, systems engineer at MCNC, a nooprofit research corporation in Research Triangle Park, N.C., thank testing InfiniBand in grid clusters. For now, Infini-Band has the advantage over Ethernet. But, says Enck, "we still view the race between InfiniBand and

higher-speed Ethernet as too close to call." III ISCSI Networked Storage Soars After Slow Start

After a slow start two years ago, the Internet Small Computer Systems Interface (iSCSI) protocol is be-

rent designs. And IBM is developing a blade based on its Rower CPU architecture and has partnered with other

ginning to push SANs down from the glass-house data center to departmental servers. The relatively low cost of IP SANs caused demand for iSCSI storage arrays to outstrip supply last year, according to IDC. In a recent IDC survey of 300 corporate buyers, 67% of respondents said they were recentive to how ing iSCSL And the research firm expects iSCSI storage systems to grow quickly, accounting for 22.6% of the storage systems market by 2007.

Like Fibre Channel SANs, iSCSI allows servers to write data to storage arrays as though the devices were directly attached to the server. But unlike Fibre Channel, iSCSI storage systems can use Ethernet cabling, switches and adapters. Fibre Channel still has the advantage in high-performance data center applications, but iSCSI lets administrators create IP SANS for other applications where the expense of dedicated Fibre Channel host bus adapters, fiber-optic cabling systems and storage arrays can't be justified. IP SANs offer substantial savines over Fibre Channel SANs, especially when Serial ATA disks are used, analysts say.

Wayne, N.I.-based ECI Conference Call Services LLC already uses Fibre Channel SANs for some applications, but CIO B.J. Weschke is using iSCSI storage appliances to su port his new Postgre SOL database servers. Fibre Channel would have been too expensive because the servers need to be in

stalled in remote loca

he says. The appliances were less expensive, and despite warnings that latency associated with using a TCP/IP network might re-

specialized ToE Ethernet adapters, performance of the iSCSI storage arrays has been adequate with standard Gigabit Ethernet adapters. "The pricing is fantastic as opposed to what I would have paid for a Fibre Channel SAN," Weschke says. "The single biggest environment I see iSCSI ad-ressing today is Windows servers," says David Dale

industry evangelist at Sunnyvale, Calif. based Network Appliance Inc., noting that Windows Server 2003 includes native iSCSI support. "ISCSI is making age inroads into that right now," be says.

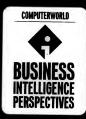
IP SANs could eventually move up the food chain to challenge Fibre Channel, but for now, the main appeal is in low and midrange servers, replacing direct-attached storage with a single, consolidated pool of networked storage. "I see it surrounding Fibre Channel SANs, making the SAN reach way into the enterprise and not just touching a few servers." says Steve Duplessie, an analyst at Enterprise Storage Group Inc. in Milford, Mass. O 47442

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os atherly: ECI Conference Call Services uses server blades and iSCSI

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11 00am - 12 30pm Concurrent End User Case Studies

12.30pm - 2.00pm Networking Luncheon 200nn - 445nn General Sossons

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pending on the number of additional users and the amount of customization. Egenera Certifies Sybase Products

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ROBERT L. MITCHELL

Microsoft: Getting to Secure Enough

F MICROSOFT WERE A SHIP, it would be the Queen Mary. It's a massive \$32 billion vessel with some 55,000 crew members, and it's difficult to maneuver quickly. Yet since Bill Gates signaled a fundamental change in direction toward

improving the security of Windows and other products a few years ago, many people have been disappointed at the ensuing pace

of progress.
Windows XP Service
Pack 2 is the latest indication that the bow of the
software dreadnought is finaily turning. The question
now is how far in this new
direction Microsoft is willing to so.

As the promised midvear release for SP2 slips to late summer, IT professionals experimenting with Release Candidate 2 will find that it represents a departure. While SP2 woo't make Microsoft's Windows security woes go away, it's arguably the most important security-related release to come from Redmond to date. That's not just because of the number of securityrelated fixes it contains but also because of the types of trade-offs the software vendor has been willing to make along the way. Rather than just patch problems, Microsoft has addressed some fundamental design is sues. And it has been willing to make changes in the name of improved security that can break some Windows applications - a fact attested to by post-

ings to the newsgroups on the SP2 beta Web aite.

Microsoft has already patched the buffer overrun capability that let the Blaster worm exploit the RPC subsystem and remotely execute code on users' mechines. But by changing the RPC/DCOM architecture and totally shutting down the ability for programs to establish anonymous connections, SP2 addresses the underlying problem. The trade-off: Many legitimate programs that rely on anonymous connections will have to be changed or they woo't work anymore. Likewise, the decision to turn on Windows Firewall and the oew popup blocker by default may cause some things to break. Microsoft signaled its willingness to make such trade-offs earlier this year.

when it issued an Internet Explorer update that blocked the use of the iglusername-password Web URL syntax commonly used for authenticaing to Web sites. Some hackers exploited weaknesses in this mechanism in phishing scams to tead user names and poswords. Under pressure to act quickly, Microsoft gave just a few week's nocice of the update and sent Web programmers scrambling to adjust.

As for the trade-off between ease of use and better security, Microsoft has given a grudging nod toward security there as well. Windows XP is both a consumer and business product, and the desire to balance the needs of both groups has pulled the company in two directions. It's hard for Microsoft to resist the urge to ladle on new consumeroriented features that may introduce new vulnerabilities, and the company historically has been loath to enha security when it meant sacrificing user convenience, With SP2, Microsoft finally seems to get the idea that simply offering security options hidden away inside Windows isn't enough. "If we don't turn (the firewall) on by default, 85% of people won't change it," says Greg Sullivan, lead product manager of the company's Windows division. So Microsoft has turned on the firewall by default and made it and other security settings accessible via a new icon called Security Center.

To get an idea of just how far Microsofts thinking has come, censider how \$1º bandles aip files. These can coutain vinses that antivirus programs can'd detect, to \$5º Bolcks all such astechments. To open as piff life, these mass first save it to disk, then select it, bring up he Properties disalog box and click on an option to unlock the file. That make the handles of 2th files previaling of uniqued ActiveX, coursels willing of uniqued ActiveX, coursels willing of uniqued ActiveX, coursels willing of uniqued ActiveX, coursels willcome users to think wice before ascepting what may be apyware or some other potentially malicous programs.

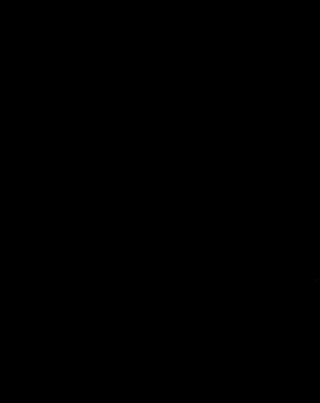
But better servivily leasn't woo out in well case. Wisdows Update's new delt patching feature makes keeping patches up to date easier by keeping download file sites smaller. Bud 592 still word turn oo Windows Update by default. "Users said they dish?" was us to make that decision for them." explaints Sailluban. That's too bod, since legions of unpatched consumer and small-bustness mechines are a big

problem for everyone. But a bigger problem is that Microsoft still doesn't have a well-articulated strategy for notifying and pushing updates out to all Windows users who need them — especially those who don't have broadband connections and can't download updates such as the 264MB SEP preview package.

That said, SP2 represents a clear step in the right direction. And while Microsoft may never have the most secure products in the industry, there are positive signs that users may eventually end up with a Windows that's secure enough. © 47682

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Peribit Launches **WAN Optimizers**

Peribit Networks Inc. in Sant. Clara, Calif., is announcing two hardware products and a new version of its software to out bandwidth over WANs. The SR 100 Sequence Reducer is dered to offer OC-3 compressed output speeds and serve as a hub rting up to 2,000 remote SR devices. It's availa starting at \$24,000. The SM 500 will be available in August, starting at \$9,000. Peribit's Sence Reducer Software 5.0 is ned to facilitate installati of SR and SM hardware, SRS 5.0 is free with SR and SM products

BPM Unveils

Latest Dashboard BPM Partners Inc. in Stamford Conn., has introduced a perfe nce management dashboard for health care organiza care Industry Expert Pack allows users to easily combine raw data from multiple sources to track metrics such as patient satisfaction, average number of ours of staff overtime per week

and mortality rates, according to spany. The dashboard is iced at \$30,000, which inles a 25-user license for the rb-based technology, impletion and best-practice in ry metrics. Prices vary de ing on the number of addiusers and the amount of

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Microsoft: Getting to Secure Enough

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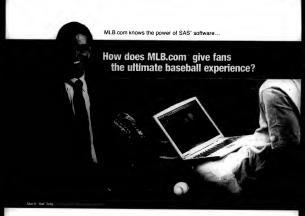
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other potentially malicious program. But better security lasm't won out in every case Windows Undate's new delta putching teature makes keeping patches up to date caster by keeping download file sizes smaller Bur SP still won't turn on Windows Update by default. Users said they didn't want us to make that decision for them. explains Sullivan. That's too bad, since legious of imparched consumer and small-business machines are a big

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MANAGEMENT



Managing today's outsourcing deals requires constant attention, big budgets and specially trained staff. By Stacy Collett

HEN ION CARROW joined Wyeth Pharmaceuticals sevence or payars ago as senior director of global IT sourcing, he faced a dounting task Building a team capable of managing more than a dozen outsourcing relationships simultaneously. Wyeth Pharmaceuticals (Gornerly

American Home Products Corp.) was expanding in councaring spreements to include desktop and networking services expanding its councieng for the model of the council of the

"IT sourcing is an emerging role within the IS function," and the job requires skills not typically found in the IT department, says Carrow, who now has a 31-membet sourcing staff.

Most companies that a similar different As outcome Ir function face tracts grow more complex, their impact tracts grow more complex, their impact tracts grow more complex, their impact of the complex of their impact of their complex of their impact of their complex of their impact of their complex of their contourcing efforts. Moreover, and lone, 20% said they had been an outloarcing efforts. Moreover, 20% said they had prematurally terminated an outloarcing efforts of their part of their complex of their compl

Today, managing an outsourcing relationship requires upfront planning, a highly skilled management team, constant com-

munication and an expanded budget Here's how some outsourcing veterans recommend going about it.

PLANNING

Experts say outsourcing decisionmakers should choose a contract management team before choosing the supplier. The team should manage the request-for-proposal process, ensuring that the requirements in the proposal are met. Delaying that step may be "the biggest mistake that any client makes." says Don Flores, project director for the sourcing management practice at TPI, an outsourcing consulting firm in The Woodlands, Texas. An outsourcing transaction, he explains, is "an enterprise change event" that requires a change management program to make the appropriate adjustments and communicate that changes are coming.

THE TEAM

The rule of thumb for contract management staff size is five to seven employees on the client side for every 100 people that are assigned to an outsourcing engagement on the supplier's side, says Paul Roy, an attorney at Mayet, Brown, Rowe and Maw LLP, which handles outsourcing contracts for Procter & Gamble Co., Motorola Inc. and Bank of America Corp.

Current IT staffers may not have the requisite skills for the management team. "Good vendor managers are very detail-oriented people who can get into the terms, conditions and maances" of an outsourcing agreement. explains Barbara Gomolski, an analyst at Gartner Inc. and a Computerworld columnist. The team should also have negotiation, project management and issue resolution skills, strong communication capabilities and financial experience, she says.

Wyeth's Carrow looked outside normal IT circles for his sourcing team. "One of my people was a contracting officer for the Navy. One may worked for a company that did outsource consulting," he says. "The biggest (requirement) was someone who understood IT but was not so into technology that they couldn't look at the broader business side of things."

MANAGING

Once the team is in place, it will need to monitor more than just the day-to-day operations of the supplier. Team mem bers also need to watch for changes in their own company's business and technology and how laws pertaining to the industry may affect the outsourcing agreement. Good management requires

HOW THEY MEASURE UP



constant attention to four areas: · Performance. The staff has to monitor standards, policies and the delivery of services from the supplier. Team members must work with the business to understand its needs and communicate them to the supplier. They must balance the demand for newer, better, kept the difference. "The company's faster technology against the cost. The staff should also closely manaover \$1 million per year," he says. service levels that could prove costly if the outsourcer let them slip. Collecting benchmarking into outsourcine conand managing performance data retracts enables them to feel more com-

quires effort, says Bart Perkins, managing partner at Leverage Partners Inc., a consulting firm in Louisville, Ky., and a Computerworld columnist. But not doing so "can be a costly mistake." The relationship. The staff has to han-

die problems before they become carastrophes. "There will always be disputes," Roy says, "It's essential to have a mechanism that's going to address disrutes at all levels. If you wait for them to bubble up to the top of the pyramid. you're creating a sense of dissatisfaction and antagonism at lower levels and

a bottleneck at the ton" Finance. The staff must ensure that invoices are correct, analyze

consumption and forecast **MYTHS & REALITIES** Sertner below set the served Contract administration. streight on outsourcing The staff needs to manage in-CONTRACT IN ATTEST ternal controls and contract

compliance. A basic challenge. Roy says, is to make sure the contract doesn't "commit the customer to standards that are obsolete." So the team has to benchmark the supplier's performance against those of competitors and make sure it's meeting contrac-

tual commitments, particularly those that are adjustable. This requires the team to monitor the market and renegotiate as technology standards change Failure to do so can be costly Perkins tells of a company that out-



sourced procurement and manage-

year contract stated that as the PC

never checked, and the outsourcer

IT outsourcing veterans say building



software to manage the life cycle of an ment for 30,000 desktops. The multioutsourcing agreement. But no amount of technology can remanufacturer lowered prices, the outplace face-to-face visits. The frequency sourcer would pass those reductions on to the company. But the customer

of visits to an outsourcer depends on its location and the scope of the deal. When Pavan Nigam led outsourcing efforts at Santa Clara, Calif.-based Healtheon (now WebMD Corp.) in the late 1990s, he learned this the hard way. His team quickly realized that semiworkly conference calls couldn't bridge the cultural and time-zone differences between the company and its offshore development center in India. So Health con increased its budgets for travel communications equipment such as videoconferencing, and team-building events for its counterparts in India.

fortable signing longer-term deals because they know they're covered as the COMMUNICATION As the performance, contractual, fi-

market changes.

nancial and relational data is collected. the information must be continually communicated throughout the business. The Web is a great vehicle for doing this efficiently, Gomolski says. "If you have this data available in a Webbased form, you can present different views to the people who need to know," she explains. For example, the

person managing operations wants to see the day-to-day metrics. transactions and bottlenecks. The head of applications is looking for technology utilization. The CIO is interested in the cost and

quality of the relationship. "It's all about getting the right information to the right people so they can make decisions," she adds.

Outsourcing vendors can often save your company from having to reinvent the wheel as it develops contract management systems. Electronic Data Systems Corp. and Computer Sciences Corp. offer online tools that give a dashboard view of service levels. Fieldelass Inc. in Chicago and Cendura Corn. in Mountain View, Calif., have developed

BUDGET

Depending on the scope of the deal and the location of the outsourcer, expect to spend 2% to 6% of the annual cost of the agreement to manage the relationship, according to industry estimates, "Be prepared to invest in the infrastructure, capital and people." says Nigam, who is now CEO of Cendura, which he co-founded. "Some people get so enamored with the cost differential that they don't want to invest in infrastructure."

And put aside money for training the sourcing management team, says TPI's Flores. "A lot of people who step into these roles are first-time sourcing management people," he explains

Managing an outsourcing agreement is complex, but IT groups are getting better at it. "IT people are a lot savvier about this than they were five years ago," says Gomolski, "People are learning from their experiences and will continue to improve." O 47280

Collett is a freelance writer in Chicaro Contact her at stcollett@aol.com.

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BARBARA GOMOLSKI

Defusing the Chargeback Minefield

NE OF THE MOST daunting tasks IT leaders face is how to structure a cost recovery — or chargeback — system that works. Countless CIOs have been burned or even seen their jobs put in jeopardy over poorly designed chargeback plans.

It's incredible how lone business unit managers remember a poorly designed chargeback system. These are the same executives who can't recall recent conversations about rising software costs, the need for ongoing infrastructure upgrades or the requirement to add more support staffers when the IT workload increases. But give them a bill for IT services that they perceive to be in accurate or unfair, and they'll remember it vividly for years. They'll even re-

call the exact details associated with the so-called error! So, how do you avoid introducing

a charm-back system that will live in infamy? Here are some tips that may help: Solicit cust omer input. The biggest mis-

take that IT leaders make is to go off into a room with their top people. cook up a logical chargeback system and foist it upon the business. These chargeback plans may be very wellthought-out and quite fair, but the business customers invariably push back with a barrage of complaints about fairness and accuracy.

A better plan is to approach the business managers, describe their alternatives for paying for the IT services that their departments consun and let management pick the method of chargeback. It's a lot harder for these business managers to later com-

plain about a chargeback system that they chose. Consider what customers value. When looking at chargeback, it's important to consider what business managers value most. For instance, do they value pre-

dictability in IT costs? If so, a flat-rate approach may be best, since it doesn't fluctriate based on use On the other hand, you may have business managers who are adamant about not paying for IT services they don't consume. For them, accu-

racy in the chargeback system is paramount, and a measured usage approach may be in order. A key criterion for some business managers is having a measure of control over their IT costs. For them, a chargeback system that allows for the reduction of IT consumption (and their requisite costs) may work best.

Finally, some managers may prefer to buy IT services from your organization just as they would from vendors in the outside market. These managers are likely to favor a service-based chargeback model in which all the costs associated with a particular ser-

vice are rolled up in one price. Don't forget the culture. When looking at charmeback, carefully consider the organization's culture and measurement capability. For instance, an extremely complicated chargeback system with prices based on usage probably isn't a good fit for an organization that likes to take a simplistic approach to administrative matters. Balance costs and benefits. Remember

to balance the benefits of chargeback with the administrative costs. Once, I visited a firm that had several hundred employees working on the IT chargeback system. Even though it was a large, global organization, it's hard to imagine that it was petting the requisite value for that kind of investment of labor.

Think user, think usage. In a nutshell, it usually comes down to charging by the user or charging by the usage. Most companies choose to do a bit of each. depending on the type of IT service. For instance, infrastructure is more likely to be charged based on the num ber of users, since almost everyone in the organization consumes those resources at a similar pace. Access to a data warehouse, on the other hand, is likely to be changed by usage, since there's considerable variation in the level of utilization among individuals. Here are some final points to consider when building a chargeback system

■ Fully implementing a chargeback plan takes time, usually one to two veirs

 IT chargeback systems within an organization must continually change and evolve, just like any marketplace. It's unrealistic to expect to find the perfect chargeback system and use that indefinitely. An IT organization doesn't have to

have a chargeback system to be successful. While it's true that the "free IT" phenomenon usually leads to runaway demand, some organizations are, overall, better off without chargeback O 47161

WANT OUR OPINION?

For more columns and links to our archives, as to

there show some oursourcing veter

happine change event that requires a house man assured program to make minimose that changes are coming

The rule of thumb for contract manplovees on the client side for every nor people that are assumed to an our sourcing engagement on the supplier's side, says Paul Roy, an attorney at Mayer. Brown, Rome and Maw 11P, which handles oursourcing contracts for Procter & Gamble Co. Motorolo Inc. and Bank of America Corp.

Current IT staffers may not have the requisite skills for the management team, "Good vendor managers are very detail-oriented people who can get into the terms, conditions and nu ances" of an outsourcing agreement explains Barbara Gomolski, an analyst at Garriner Inc. and a Communerworld columns. The team should also have usue resolution skills, strong commumention capabilities and financial experience, she says.

Weeth's Carrow looked outside nor mal IT circles for his sourcine team. "The of my people was a contracting officer for the Navy One guy worked for a company that did outsource consulting," he says. The biggest frequire ment) was someone who understood IT but was not so into technology that they couldn't look at the broader business side of things."

Once the team is in place, it will need to monitor more than just the day-to-An operations of the supplier. Team members also need to watch for changes in their own company's business and technology and how laws pertaining to the industry may affect the outsourcing agreement. Good management requires

HOW THEY









dust attention to four are w Performance. The street has to ment for standards, policies and the delivers of services from the supplier. Jeans members must work with the business to understand its needs and communicate them to the supplier They must balance the demand for newer, better. faster technology against the cost

The staff should also closely manage service levels that could prove costly it the outsourcer let them slip. Collecting and managing performance data pequires effort, says Bart Perkins, manage ing partner at Leverage Partners Inc. of consulting firm in Louisville, Ky, and a Computerscorld columnist. But not do-

ing so "can be a costly mistake. ■ The relationship. The staff has to handle problems before they become catastrophes. "There will always be disputes." Roy says, "It's essential to have a mechanism that's point to address disputes at all levels. If you want for them to bubble up to the top of the pyramid. you're creating a sense of disentisfaction and antagonism at lower levels and

a bottleneck at the top Finance. The staffmust ensure that invoices are correct, analyze

consumetion and forecast

MYTHS & REALITIES ■ Contract administration The staff needs to manage in-O QuickLink 47282 ternal controls and contract

compliance. A basic challenge. Roy says, is to make sure the contract doesn't "commit the customer to standards that are obsolete." So the team has to benchmark the supplier's performance against those of competitors and make supe it's meeting contratual commitments, particularly those that are adjustable. This requires the team to monitor the market and renego trate as technology standards change

Failure to do so can be costle. Perkins tells of a company that our

sourced procurement and manage ment for \$0,000 desktops. The multiyear commer stated that as the PL manufacturer lowered prices, the our sourcer would pass those reductions on to the company. But the customer never checked, and the oursonner kept the difference. "The company's failure to monitor its outsourcer cost it

over \$1 million per year," he says, IT outsourcing voterans say building benchmarking into outsourcing contracts enables them to feel more comfortable signing longer-term deals because they know they're covered as the market changes.

As the performance, contractual, financial and relational data is collected. the information must be continually communicated throughout the busi ness. The Web is a great vehicle for doing this efficiently, Gomolski says, "If you have this data available in a Webbased form, you can present different views to the people who need to

know," she explains. For example, the person managing operations wants to see the day-to-day metrics. transactions and bottle necks. The head of applications is looking for technol

ogy utilization. The CIO is interested in the cost and quality of the relationship. It's all about petting the right information to the right people so they can

make decisions," she adds Outsourcing vendors can often save your company from having to print and the wheel as it develops contract man agement systems. Electronic Data Systems Corp. and Computer Sciences Corp. offer online tools that give a dashboard view of service levels. Fieldglass Inc. in Chicago and Cendura Corp. in Mountain View Calif, have developed software to manage the life excle of an

But no amount of technology can replace face to face visits. The frequency of visits to an outsourcer depends on its location and the scope of the deal. When Payan Nigam led outsourcing offorts at Santa Clara: Calif. based Healthcon (now WebMD Corp.) in the late 1990s, he learned this the band year 14is team quickly realized that semiweekly conference calls couldn't bridge the cultural and time-zone differences between the company and its offshore de velopment center in India So Healthcon increased its budgets for travel. communications equipment such as videoconferencing, and team-building events for its counterparts in India.

Depending on the scope of the deal and the location of the outsourcer, expect to spend 2% to 6% of the annual cost of the spreement to manage the relationship, according to industry estimates. "He prepared to invest in the infrastructure, capital and people." says Nigam, who is now CEO of Cendura, which he co-founded. Some

people and so enamoned with the cost differential that they don't want to invest in infrastructure And put aside money for training the sourcing management from says TPFs Hores. 'A lot of people who step into these roles are first-time sourcing management people," he explains

Managing an outsourcing agreement is complex, but IT groups are getting better at it. *FF people are a lot sawvier about this than they were five wors aga," says Gomolski, "People are learn ing from their experiences and will continue to improve." O 47260

Collett is a freelance writer in Chicago Contact her at steollettingol com.

What's Grid?

at does the term grad or grid computing mean?

where several coupled servers perform as one Data mots for efficient sherring of data across.

ocations or systems ssively parallel process reg of workloads across several computers

Confusing term that has several meanings Same as or similar to virtualization of IT resources

Same as or smiler to units

Grid Rollout Highest level of imples tation for any gnd application



Multiple Grids Number of grid applications



Defusing the Chargeback Minefield

NE OF THE MOST daunting tasks IT leaders face is how to structure a cost recovery - or chargeback - system that works. Countless CIOs have been burned or even seen their jobs out in jeopardy over poorly designed chargeback plans.

It's incredible how long business unit managers re member a poorly designed are the same executives who can a recall recent conversations about rising software costs, the need for onjamig intrastructure up grades or the reanirement to add more support staffers when the H work load increases. But give them a bill for l'Eservices

that they perceive to be in accurate or unfair, and they'll remember it yividly for years. They'll even recall the exact details associated with the so-called error! So, how do you avoid introducing

a chargeback system that will live in infamy? Here are some tips that may helps

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WANT OUR OPINION?

Be cool, Mr. "I Have Security Issues." Nokia has you covered.

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06.28.04

In Plain English

On-demand computing at the enterprise level takes discipline, a deep knowledge of business processes and a rethinking of the organizational structure of IT. Users and experts cut through the hype and explain what you oeed to know. PAGE 34

Furniture buyers hit the shops on federal holidays. Vacationers hit the roads in summertime. Businesses with seasonal demands such as these have found savings by being early adopters of oo-demand computing. PAGE 36



All the major veodors are talking about on-demand computing as a server technology. But columnist Mark Hall says there could be real value to exploiting this computing model on the desktop. PAGE 42



On-demand computing is confusing. We explain it in plain English and identify the pros and cons.

EDITOR'S IN ANTITRUST LAW, you must define the market you're analyzing - put some borders around it - before you can decide the case. That's what we had to do for this special report, too, because on-demand computing has different definitions depending on whom you talk to and how many semi-related technologies they tack on.

Ultimately, we settled on this: On-demand computing is the dynamic allocation of computing resources to meet fluctuating business demands on a pay-per-use basis; it can be done internally or by a

service provider. And we're focusing on the hardware side rather than on that buzzword thicket of

on-demand software also known as application hosting and software as a service. Then we decided to explain on-demand computing in plain English, so you can explain it to the CEO

(see page 34). Our survey of 765 IT professionals showed a three-way split, with some users already adopting on-demand computing, some considering it but oot yet sold on it, and some figuring it's a grand scheme to boost vendor revenue. So we've got stories

about the pioneers, the tire-kickers and the skeptics. My hunch is that we're just starting on a slow, incremental, 10-year journey, with many issues to be worked out, such as fair pricing and how to avoid vendor lock-in. On-demand computing seems to

work for companies that must ramp up IT for peak business seasons, but it may not be for everyone.

Mitch Betts is Computerworld's Features editor. Contact him at mitch_betts@computerworld.com.



Users and experts cut through the hype and dissect the buzzwords - to explain what you need to know about on-demand computing. BY STEVE ULFELDER

HE LINCO, COMMENTAL and sheer scale of on-demand computing often seem so vast as to be paralyzing. But when you neel away the marketing spin and the many terms used to describe this phenomenon, you can reduce it to two phrases that everybody understands: "waste not.

want not" and "pay as you go." While the concept may be simple. the execution isn't. Full-on-demand computing at the enterprise level requires degrees of reporting and manment unheard of at most companies. It also entails rethinking the organizational structure of IT - focusing oo business needs rather than on tech-

nical specialties In an effort to back through the definition thicket, here's a simple way to think of on-demand computing: It's when computing resources are made available to users on an as-needed. pay-per-use basis. These dynamically allocated resources may be maintained within the enterprise itself, or they may be procured through a service provider.

Many in IT use the term utility computing as a synonym for on-demand computing, but utility implies neartotal use of outsourcing, application service providers and managed services. For some business executives. the idea of turning on a tap and getting all the IT you need - along with ao easy-to-read bill at the end of the month — is appealing. But it will be a long time before this is the reality in any sizable enterprise. Existing investents in infrastructure, as well as the desire to use IT as a competitive differentiator in selected strategic areas. make the 100%-utility model unfeasi-

However you define it, on-demand is in demand. In a recent Computerworld online survey, 32% of the 765 respoodents said they are pursuing, piloting or have deployed on-demand computing, while 30% are investigati it. Economics is the primary driver. "Most companies have optimized their IT eovironment and are looking for ways to find additional gains," says lo-

ble for most.

An Skowrooek, vice president of busi ness development at Affiliated Computer Services Inc., a Dullas outsourcer

Emphasis on Cutting Costs

In 2003, when Cigna Corp. began talking with IBM about on-demand, cost reduction was the principal motivator, according to Ben Flock, vice president of virtualization at the Philadelphiabased health care insurer. Cigna was using more than 3,000 servers for

myriad applications, including selfservice portals used by many of its 10 million customers. "We'd been developing apps oo fly, so we had a lot of

legacy (systems)," Flock says. Initially. Cigna's goal was simply to move all applications to a single version of IBM's WebSphere "to drive down operating expenses," he says, But when IBM said Cigna was a candidate for on-demand. Flock agreed.

Other on-demand pioneers also turned to the computing model to save money. Two years seo, when Exxon Mobil Corp. in Irving, Texas. made its Mobil Travel Guide unit an autonomous division, Mobile Travel Guide CIO Paul Mercurio went the service-provider roose, opting for IBM's On Demand Linux Virtual Services to host and manage the divisioo's e-business applications. *Despite the Exxon Mobil name, we were acting as a start-up. We knew we would grow rapidly, and our business was seasonal," he says (see story, page 36).

Every major enterprise softwa vendor offers on-demand in some form, depending on that yendor's history and strengths. Some focus on management and reporting tools, oth ers on virtualization and still others on the services model

But a successful oo-demand strategy demands organizational change as well. At Georgia-Pacific Corp., CIO James Dallas is trying to retool the IT

mind-set before introducing ondemand products and services. His spal is to help his 1.200 fT employees think more like business people before the Atlanta-based conglomerate shifts to on-demand

"We need to run IT like a business. but what does that really mean?" asks Dallas. "To someone who's been in IT all his career, that's an empty phrase." To make the phrase meaningful, Georgia-Pacific is putting all its IT em ployees through financial-skills workshops and other fiscal training. Dallas has also tasked a communications specialist to constantly communicate the changes the new model will brine, and Georgia-Pacific has formed centers of excellence around three key areas business intelligence, server support

and e-commerce - in which ondemand will be put to the test. "We're still early to the process," says Dallas, "but we think it's important to adopt on-demand as a business model, then put the technology in place."

Alignment Is Everything

If there's an underexplored aspect of on-demand, it's that the model can't succeed in one of its primary goals aligning IT use with business needs unless coupled with a business process methodology. Some of the methodologies designed to do just that are IT Information Library (ITIL), balanced scorecard, business service manage

ment and portfolio management. These disciplines force organizations to begin at square one, which may prove frustrating for IT managers

On the Radar Screen



Have you budgeted any in 2004 or 2005 for on-di technologies or services?



expecting quick benefits. Even basic nomenclature must be addressed; if storage capacity or administrator isn't defined exactly the same way across all of an enterprise's data centers and IT groups, it will be impossible to pool and manage these resources. According to Chris Buss, manager of virtualization at Hewlett-Packard Co., this lesson was learned by Philips Semiconductors when the manufacturer implemented the Utility Data Center. HP's flavor of on-demand.

*Philips quickly found out they needed standard nomenclature in place," Buss says, "So with help from us, they used ITIL to crease a set of universal definitions they called the Soldier's Handbook," Buss says Philips has since achieved 45% cost reductions in its data center operations.

Early users notwithstanding, ondemand has until recently been shrouded in unrealistic expectations and conflicting definitions. Fortunately, the peak hype has passed, replaced by sober assessment of the model's limitations. "There are a number of business objectives on-demand can help solve," says Bill Mooz, senior director of utility computing at Sun Microsystems Inc. But it won't magi cally slash IT expenses oo its own, he adds. "If your cost is too high, it may be because you're using the wrong architecture or operational model." he says. "You need to address the root cause before you start worrying about [on-demand] as a financial model." What needs to be done to push oo-

demand forward? Analysts say applesto-apples pricing comparisons would be a major step. 'All the big systems vendors have noted this confluence of [distributed enterprise computing] trends and have responded with a blend of services and highly distrib uted software," says Dan Kusnetzky, an analyst at Framingham, Mass-based IDC. "But they've all spun it their own way; there are now a dozen buzzwords" for on-demand.

Kusnetzky says on-demand will find greater enterprise acceptance when terminology and pricing models grow more standardized.

Flock says Cigna's move to an ondemand model for its IBM WebSphere operations has reduced costs significantly. Moreover, he adds, the maturation of the discipline promises to bring about the hoped-for tie-io between business needs and IT resource allocation

"The initial drivers for on-demand were reduced operating expenses," Flock says, "But we're seeing other benefits now, like improved security and performance guarantees. This looks like the real thing." O 47260

Ulfelder is a Computerworld contributing writer in Southboro, Mass. Contact him at sulfelder@charter.net.

DEGREES OF DOURT

in an exclusive Computerworld survey, a majority of the 765 (I profestionals who responded indicated some degree of skeptown about on-demond computing



SPECIAL REPORT

Terms to Know

UTILITY COMPUTING samesmen called metered services, is a subset of on-demand computing in which IT resources are provided by an outside services firm, and the chant company pays. only for what it uses. (To meny whitecomputing and on-demand computing mean the same thing.)

GRID COMPUTING is the practice of applying multiple computers' mocession power to a single problem simultaneous ly Created as a way to use computers that would otherwise sit idle to solve complax scientific problems, gnd computing is still most frequently used in the lechnical, scientific and academic communities. The VIRTUAL OATA CENTER entails pooling resources to make individual components behave as if they were a

sannin entity **AUTONOMIC COMPUTING describes** an infrastructure that monitors itself, alocating resources and even making repairs without human intervention.

myriad applications, including selfservice portals used by many of its to million customers. 'We'd been develonine mus on the server had a lot of legacy [systems]," Flock says, Initially Cigna's goal was simply to

move all applications to a single version of IBM's Websphere "to drive down operating expenses," he says, But when IBM said Cigna was a condidate for on-demand. Flock agreed.

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be used by business lines ac ng to need and priority. prove reporting and monitoring This will help IT ensure that the resources flow to the right ces at the right time and that do-

its and lines of busi ged appropriately for their unam Determine which technology needs are commodities that can be outsourced or purchased on a pay-per use basis (storage, perhaps, or the help desk) and which are strateous and should be kept in-house (such as a highly developed CRM system

On the Radar Screen

What are your plans regarding on-demand computing

technologies or services? Currently priobner Have already

technologies or services?

Have you budgeted any funds in 2004 or 2005 for on-demand

BASE: Online survey of 765 IT professionals

mystratia

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Getting Serious Early users not withstanding, on demand has until recently been shrouded in unrealistic expectations ls, the peak hype has passed, replaced by sober assessment of the model's limitations. "There are a number of help solve," says Bill Moor, seguor di rector of utility companies at Sun Microsystems Inc. But it won't map eally slash IT expenses on its own, he adds. "If your cost is too both, it may be because you're using the wrong ar chitecture or operational model." In says. You need to address the root Jon-demand] as a financial model." What needs to be done to push on

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Ultilder is a Computer world committee ing senter in Southform, Mass Fontact

DEGREES OF DOUBT

Questink 14690 www.computerworld.com



Early adopters are using on-demand computing to help them ramp up operations to meet peak periods of customer activity. BY STACY COLLETT

PASOMAL BUILDINGS CHIVES sparked the movement toward on-demand computing for many early adopters. In the case of two pay-as-you-go oneers, each required a 100% increase in processing capacity for only a few onths of the year. And each braved uncharted territory by choosing reputable vendors and cutting seemingly win-win deals. For them, on-demand computing is paying off.

COMPSTERMENT, June 28, 2004

Retailer Takes on Holiday Sales Spikes Federal holidays and furniture sales eo hand in hand. At furniture retailer P.C. Willey Home Furnishings in Salt Lake City, holidays require three to four times the IT processing capacity of a regular business day to handle the influx of orders and all the related backend functions. That used to mean

emergency mode" for the IT staff.

according to Ned Iones, information systems director. When product-ordering applications slowed, end users at the retail stores would complain, and only then did the IT staff purchase and install new processors. What's more, IT was paying for a hot standby server that mostly stood idle

The retailer's old V Series servers that supported the company's applications were no longer equipped to meet peak demands and a growing business. In 2002, Jones reached a crossroads: Buy upgraded servers with more processors, or try one of the new nav-asyou-go programs. "In the past, we ooticed we probably upgraded or added to our computers every two to four years because of demand," he recalls.

So Jones signed on with Hewlett-Packard Go's pay-per-use lease pro-gram through HP Financial Services. Today, R.C. Willey leases two midrange RP8400 servers, with one serving as a hot standby. Each holds eight processors. During regular business days, IT infrastructure runs between 25% and 75% of total capacity. At

peak sales times. Jones turns on all eight processors, and he turns them off when they're no longer needed. The company saves 20% on the combined server lease compared with the cost of traditional purchasing

We wouldn't have purchased an cight-processor system," says fones, "We would've skimped and probably bought six. [Pay per use] prevents us from buying extra processors in a hurry." As an early adopter of HP's pay-peruse program, Jones was skeptical at first, but the oumbers were convincing. We figured on the production server. we really weren't going to save a lot," he says. "At five processors, you're paying what you would've paid on a normal lease, then after six, seven, eight processors (at peak times), you're

actually paying more." HP calculates payments based on average monthly CPU usage. The retailer pays a baseline price for the standby

server. "We're saving a lot of money there," Jones says. HP offered to refund the difference if the cost of R.C. Willey's three-year lease exceeded the cost of a standard outsourcing agreement. "There was

nothing to lose," lones adds. Travel Site Drives Down Costs Each year, 96 million leisure travelers

flock to the Internet looking for flights. hotel rooms and maps, especially during the summer months, according to the Travel Industry Association of America. The seasonal nature of travel poses some challenges for the IT staff

at Mobil Travel Guide in Park Ridge III In the winter, Mobiletravelguidecom, which caters exclusively to mad travelers, receives a few hundred thou sand monthly visitors. In August, that number doubles. And when the company posts its annual ratings of hotels rant and spas each fall, Web traffic increases tenfold.

Such wild fluctuations in capacity requirements led Paul Mercurio, senior vice president and CIO, to ondemand computing services in October 2002. "I saw an opportunity to go to a model where I had much more operational flexibility. I could make tactical changes without a lot of forewarn-

ing." Mercurio says.

Under an agreement with IRM, Mobil Travel Guide pays a base price for use of IBM's largest mainframe comp with 2990 servers, and it can add caps ity for processing, storage, memory and Contact her at stcollett@gol.com.

Outsourcer Outsources Pay-As-You-Go Computing

network connectivity as needed for an additional monthly charge. For instance, when the site suddenly requir additional storage space for backup and recovery early one day, "all I did was make a phone call (to IBM), and I pay a little more for my service that month,"

he says. "No capital dollars involved." Mercurio estimates that the five-year on-demand computing agreement will cost 25% to 30% less than a traditional traditional contract where hardware is purchased and then outsourced. What's more, IT staffing costs remain low. The director of system operations solely manages the IBM engagement, and IBM handles the database administra-

tion work Mobil Travel Guide was one of the first three adopters of IBM's Linux Virtual Services in 2002. Mercurio says the risk was mitigated by working with a well-known company. He was also familiar with Linux - his company had built a database in a Linux/Oracle environment several months earlier.

Mercurio's team went live with the new system on Oct. 28, 2002, one week before the annual ratings announce-ment. The Web site handled the increased traffic without a hitch. In Feb ruary, when business slows, "I could cut my capacity in half and the bill would drop," he says, "We're hanny." @ 48905

Collett is a freelance writer in Chicago.

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NOTAMAN COMPUTING it a concept some I'll managere have bed up to the light and turned around a few times. But while the computing model has clearly captured their interest, they're not 100% sold on it, a few and custious approach. In fact, industry experts say that while some users have already deployed applications that the abruntage of utility computing for a specific function or computing the computing that is a specific function or demand will be an interitive process that will take

years, if not up to a decade, to complete "I think we'll continue to see pilot projects in the short term over the next several years, with more enthusiasm and deployments building as more of the technologies necessary for utility computing come to market," says Jamie Gruener, an analyst at The Yankee Group in Boston. These developments include integrated data center automation and virtualization tools, easier-to-understand pricing models and improved capabilities to establish and maintain service levels across multiple technology layers within the data center, "It won't happen overnight." Graener says, "but a number of larger customers have already begun the journey, with midsize customers starting to pilot programs this year and going forward." Gordon Haff, a senior analyst at Illuminata Inc. in

migration. "We will reach a point where applications won't have to sit on this particular server with this much memory," he says: "Instead, there will be a pool of applications, and you won't have to worry about which server is actually running it." Computerworld talked with three CIOs who are examining the on-demand computing model. Here's what they had to say about what they bop it can deliver, what they had to say about what they bop it can deliver, what they reoncerned about and what it will see

Nashua, N.H., agrees that on-demand will be a gradual



Harry Roberts
Senior vice president and CIO,
Boscov's Department Store LLC
- COMPUTING ENVIRONMENT: In addition to a 2700 enterprise server,

Boscov's data center bosses an RS-6000 running customer resource management, bestiress intelligence and data mining applications. It also has a server farm made up of IBM Soriers PCA. All of these systems are connected to two 3.2TB Shark storage-area networks (SAN) from IBM and support about 770 suerse. Ossisée the data center, there are 2.000 deaktop PCA (mossity IBM), 3500 point-of-siale devices and a number of Uhis servers.

running it-store applications.

"We're trying to position ourselves to be more open-source-oriented so that we can move our software to whatever architecture we have spare capacity on," says Roberts. "We're not quite there yet, but

we hope to be in a couple of years."

• HOPED-FOR BEHEFIT: The ability to better align

BOME STATE SERVICE IN A STATE OF S

These IT managers are giving on-demand a close look, but they aren't fully sold, Heres a look at their hopes for this new computing model, and their key concerns. BY MARY BRANDEL

Tire-Kickers

ny pays year-round for the hardware and software to support that peak period. Roberts is intrigued by the idea of on-demand com-

nucerrs as intrigued by the tales of on-dentand counputing, where the company would pay only for the computing resources it uses. "Our software is priced based on the capacity of the hardware we're using it on. So we're paying not just for hardware but for the software, based on our peak capacity," he says. An on-demand model would not only theoretically reduce Boscow IT costs. but it would also better

align computing costs with each month's revenue. But while Roberts sees great potential and has spolen frequently with IBM about its on-demand computing architecture, he still sees areast that need to be worked out before on-demand computing is feasible. For instance, there's the question of independent software vendors. "We haven't seen our third-party software vendors step up to the plate and have a complementary program to IBM's," Roberts says. In addition, a move into IBM's on-demand architecture would require Boscov's to replace its IBM 2000 server, since IBM's on-demand plan is focused

around its x990. "To justify the necessary investment of retooling our shop, there would have to be some tangible percentage reduction in cost, and I don't know how on-demand is going to achieve that," Roberts says.

**WHAT IT WILL TAKE TO CONVINCE HIM: Roberts says.

 WHAT IT WILL TAKE TO CONVINCE HIM: Roberts says, he wants proof that on-demand will result in a lower total cost of ownership. "To date, there aren't enough details to make me comfortable that it will achieve my coals." he says.

Roberts also wants to see the third-party software vendors come to the table with licensing models that match on-demand architectures. "Everyone has to be in agreement." he saw.

Jim Hull

Vice president of orgineering services, MasterCard International Inc. • COMPUTING ENVIRONMENT: Master-Card has three IBM 2900; several HP/Tandem servers for its debit ap-

Pictaions: 700-plus Sun Microsysteers Inc. Units servers for its financial and settlement applications. Web server programs. Oracle Corp. finance programs and project management systems 1,000-plus Windows FT servers; and 1500-plus IMO 2505 series PCa. The Purchase, NY-based company has tried to standardize on IBM and Sun servers. For storage, Master-Card has almost all EMC Corp. systems, with some from Hitachi Data Systems Corp.

 HOPED-FOR BENEFIT: The ability to quickly add CPUs during the holiday shopping season.
 BIGGEST CONCERM: Varying maturity levels from different vendors, and no consistent template.

otherent vehoors, and no consistent template. Hull is also intrigued by the possibilities of ondemand computing but believes it's quite immature. As a result, he's causiously implementing on-demand related technology only in pockets of the enterprise where the architecture can accommodate it and

where the business truly needs it. Although the major on-demand vendors offer technology at varying levels of maturity, there's no ond template that's consistent from vendor to vendor, Hull points out. This makes users susceptible to vendor lock-in. "Let's say you chose Vendor X and it turns out it was the wrong choice," he says What if on-demand took a different direction but you've already bought into what they were selling? Another challenge is sorting through vaporware, like in grid computing. "Vendors say, 'We have it.'" Hull says, "but then you ask, 'What leading financial industry player is using it? For what applications? How does it scale? Does it work on technology that's three years old? It turns out that conceptually it's great, but there's not a lot of people doing it yet."

great, but there's not a lot of people doing it yet."
MasterCard is using on-demand technology such
as SANs, which allow servers to share pools of storage, as well as liMN Capacity Upgrade on Demand
on the zGreies 900. With CUOD, MasterCard can
quickly add CPUs through a firmware download.
This makes the holiday shopping seroon easier to
handle; previously, upgrades had to be planned well
before peak processing time.

The trouble with CUoD is that so far, IBM doesn't let companies turn processor power off, as Hewiete-Packard Co. does. In addition, Hull says, "since you may have CA or EMC or Sterling software running on the mainframe, as soon as you add the addition."

But one of the companies of the sound in the soun

MasterCard has also brought Sun's Solaris 10 operating system, which is expected to enable logical partitioning, into its test environment. According to San. Solaris 10 will enable users to early move applications around on existing pools of servers, adding and subtracting processing power where it's needed. "Companies have whole pockets of servers running at 10% to 15% utility, but if 'vo can stack multining at 10% to 15% utility, but if 'vo can stack multi-

ple applications onto one server, you can get better return for your dollar," Hull says.

• WHAT IT WILL TAKE TO CONVINCE HIM: Like Roberts. Hull says that he'd need to have a better understanding of how on-demand would be proced and how it would effect other software. Tearticularly on the mainframe, where you have BM, CA, Seefring, BMC and a whole busho of other software — while it may make serse financially for the IBM piece, you might drive up the cost significantly on the others, "he says,

There are two other areas Hull would like addressed: better industry standards for vendors to adhere to and a sing-term commitment from the vendors that they'll continue to support the ondemand models they currently promulgate. In particular, he doesn't want to start down a road with one vendor, only to end up having the vendor channe vendor, only to end up having the vendor channe

direction in three or four years. Ultimately, Hull would like the entire infrastructure to recognize and respond automatically when something changes. For instance, if CPU use uncreases, he'd like the storage system to sustomatically respond, and vice versa, without human interaction. "In a nerfect would I'll like to have a nest that

spones, and vice versa, without human interaction.

"In a perfect world, I'll like to have a system that
turns on additional CPUs in peak season, self-provisions and makes the service-tweed agreement, and
when that was all done, deinstall the CPUs, 'he says.

"The only way to do that is through open systems
and open standards and people all driving toward the
same concept of on-demand."

G W

Mike Prince CIO, Burlington Coat Factory Warehouse Corp.

COMPUTING ENVIRONMENT: By fall,
Burlington Cost Factory's environment will consist of thousands of
Linux servers, many of which are
IBM xSeries; some Windows desktop clients; Deli

Inc. in-store servers; and a few Sun Sparc-based servers that it doesn't plan to retire. Its storage system is from Hitachi.

HOPED-FOR BEMETT: A way to switch computing resources back and forth from general ledger opera-

tions at month's end to sales transactions that spike during the holiday shopping season. a BROGEST CONCERN: Lack of automation to detect, monitor and activate a server.

Thanks to some old Scopest computers it had to retries flurifiscon Coar Exercity is previted for along the ord-demand computing path. 1 don't think which con-demand computing path. 1 don't think which con-a suggressive about on-demand, but we well-decad with the need to make a change," says Prince. The Burlington, NJ, 3-based company that allready moved its point-of-sale and in-store systems, as well as many functions in its distribution creaters, to Linux, so it was logical to consider that operating system to replace its properfectary Units servers.

Burlington Cost Exctory is also a heavy Oracle user, employing not only its 9 darabase but a lao its ERP software and tool sets to build internal applications. With Oracle moving toward grid computing—which enables companies to dynamically move computing resources to the applications that need them—adopting that model made series for the company. On-demand was particularly strutterive to the na-

tional retailer because of its dramatic dips and spikes in computing power needs. For instance, general ledger operations peak only at month's end. Sales transactions need tremendous amounts of horse-

power, but only during the holiday shapping season. Correctly, Butlington Cost Factory has no my to which computing power from general ledger to sales processing and back. As a result, it has traditionally bought much more computing resources than it actually needs. With one-demand computing, however, users have vittal resources in the form of clustered services and can physically provision or deprovision those resources based on which application needs.

them at the time. "Instead of all time, processors allocated to sales processing when you don't need demy, you can allocate them to something else." Prince says. The result much lower overhead, and one-shard to one-shalf of the capacity the company would need without one-demand. And because Limar runs on smaller IBM Scrieies servers rather than on big-iron propersetry. Unlik, there are also handware savings. "The price/performance is an order of magnitude better than the systems wire replacing." Prince system.

Burlington Coat Factory hopes to have its outdemand infrastructure in Pace by fall, including a leap to Oracle's lög database. Other pleeces of its vitcularitation paralle include Converded Communication of the Co

which enables servers to share storage as a single unit; and F5 Networks Inc.'s load-balancing software. What's missing according to Prince, is the ability to automatically detect, monitor and activate a server from a pool of spare resources. However, he's looking into technology from Vio loc. to do that.

What's Next

Industry experts any turning these tire-kickers into buyers will take a concrete defin on the part of vendors. Greater says the most important childings will be market education, because many IT executives just don't understand what on-dynamic in. "Some see I couly an ottonerring others just a standardizing on a virrualization tool for servers." he siys. "Bech are mythatrualization tool for servers, be siys." Bech are mythatmagnetis of the six of

should also standardize around the management, communications and data protecteds used in ondemand computing, such as the Open Grid Services laftastructure.

There won't be one grand on-demand standard, but eather different standards in the different layers," Half says. The nirvana of everything working across everything is one of those goals that will probably never quite exist. "O 46870"

Brandel is a Computerworld contributing writer in Grand Rapids, Mich. Contact her at mary, brandel@comcast.net.

VENDORS ANSWER BACK

and Sun address customers top concerns about on-dema



Skeptics

Not all users are ready to gamble on on-demand computing. Here's a look at the top reasons IT managers are reluctant to pursue this new model. BY MATT HAMBLEN

ESPITE THE VENDOR 85:22 surrounding on-demand computoc. many IT managers have con left scratchine their heads, wandering exactly how this model might benefit their husingers [Users] like the concept," says

Corey Ferengul, ao analyst at Meta Group Inc. "However, it's so big, so hard to grasp that it seems unatrainable and comes across as marketing All the right words are there; now the users require translation to action. In fact, a recent Computerworld on line survey of 765 IT professionals

shows that 50% are somewhat skepti cal and 14% are very skeptical about the future of on-demand computing models. Their top concerns? The mostoften cited was cost, followed by the fear of getting locked into proprietary vendor systems and, finally, security. Other IT managers say they worrs about rurning over control to an outside service provider or another business unit in their organization.

CONCERN Cost

Damsen Bean, vice president of corporate systems at Hilton Hotels Corp. io Beverly Hills, Calif., points out that with hardware costs so low, users can simply buy their own servers to meet prak demand.

'It's cheaper for me to buy another box rather than worrying about config uration changes," notes Bean, "When I look at the economics of operating big systems, hardware is no looger a great constraint. If hardware is out a large component of the cost structure, is doing all the perotiation and purting everything in a shared physical environment worth it?"



Dec Taylor, IT manager at Trace Die Cast Inc. in Bowling Green, Ky., agrees. With the price of servers today, you can really afford to have some extra

he says But many analysts and woodors argue that cost savings will be realized if companies increase capacity only 20% by pooling servers to crunch computing jobs consecutively. And those say-

ings, proponents say, will come primarily from reduced labor to maintain the systems - and not necessarily from lower hardware costs.

That argument doesn't ring true for Hugh Honts, network operations manager for the Marion County Board of Commissioners in Ocala, Fla "Servers are so cheap now and Microsoft has finally come out with free or inexpensive tools such as [Microsoft Operations Managerl. So why would you do something so complex as grid or ondemand computing?" he asks.

"It wouldn't surprise me that londemand I is another way for hardware and software vendors to make money." Honts adds. In fact, several analysts serve that drastically declining costs of processors and servers have forced

hardware makers to find other revenue streams, such as management software to handle on-demand computing

CONCERN Vendor Lock-in

Some IT managers are more worried that on-demand computing could restrict interoperability and flexibility

"That would be a big concern for us," says Chris Diorio, business intelligence architect at United Parcel Service Inc. in Atlanta: "I'd worry you'd be locked into a single vendor, with everything depending upon them."

For example, Diorio says, Microsoft Corp. has a "history of not making things interoperable, so that nobody else can use the products." He says he's concerned that there could be a similar problem with on-demand providers. "On-demand solutions so far have

been proprietary . . . and the lack of in teroperability has been a big concern says Tony Catone director of systems architecture at Philadelphia Stock Exchange Inc. The exchange is guided by application development, independent of hardware and platforms, which means that it must have a high degree of interoperability, he says, "Interoperability allows our developers to have choice and to be nimble," and a single vendor with an on-demand approach might not respect that, he says.

Catone adds that he uses Hewlen-Packard Co.'s OpenView software but is lecty of the vendor's Utility Data Center concept *because it means you are locked into HP products."

Catone says he's glad to see vendors such as Veritas Inc. touting more inter operability for on-demand storage and

server capability. CONCERN: Security

stay out of my data."

Taylor says security worries would stop him from working with a service provider for a complex on-demand system. "If my data is kept on the provider's machines, then I have no way to know what or how that data is being protected," he says, "Also, I don't like the idea of trusting a provider to

Sharing compute time with other companies poses a risk of data leakage Diorio says. "The problem is that there is always a way around security." he says. UPS would probably never use a system that shares resources with other companies. Diorio adds, because of

security worries For the Philadelphia Stock Exchange. security is paramount, with tops of thousands of trades being processed each second, says Catone. "We would nced to understand in great detail the



Cost of services Propository technologue lack of intercoerability

will lead to winder lock-in Lack of security 120,

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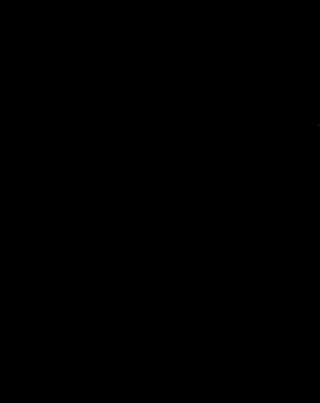
security architecture of any oodemand service provider," he says. "We're conservative, and there's a lot

of concern that if you didn't control all the points of ingress to our systems that it would be too tempting a target for maliciously inclined people to launch nefarious exploits. Skepticism aside, more than half of

the survey respondents said they expect on-demand computing to have an impact on their husinesses in the next few years. And 30% have hudgeted funds for on-demand technological or services through 2005. O 46969

A CONTRARIAN VIEW

Hitton Hatels' Domes Bean sounds off on the netally



User Oualms

Skeptics

Not all users are ready to gamble on on-demand computing. Here's a look at the top reasons IT managers are reluctant to pursue this new model. BY MATT HAMBLEN

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CONCERN: Vender Lock-in

Some IT managers are more worried that on-demand computing could restrict interoperability and flexibility.
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Hiton Hotels' Damen Bean sounds off on the prisits of on-demand computing.
QuickLink 47365

COMPUTERWORLD HAS BEEN NAMED MAGAZINE OF THE YEAR FOR 2004.

Every year the prestigious American Society of Business Publication Lifting (VSBPF) selects one publication with 50,000 or more subscribers to receive, miss top honor. The award can pe to any cusiness publication in any industry degory, and we won! We are proud of a our origing commitment to throrial integrity, andience focus and indepth owerage has been controlly by this suspicious ward.

COMPUTERWORLD

on of the above OTE: Total exceeds 100% due to rounding

and other vendors are touting on-demand computing as an advanced server-centric technology that can help manage peak-and-valley processing-lead problems while keeping costs down. Each wender has its own technical approach (and terminology) for how servers can be leveraged in an on-demand model. But they're not talking about desktops any longer. And that's a shame, because there are still some interesting

gy officer and founder of Endeavors Technology Inc. in Irvine, Calif., says providing Windows applications on demand would be ideal for things such as user training or

"It makes no sense to install a full appli cation on a desktop if the user isn't going to be working with it for an extended period

of time," says Boker. And he's right. That's why he came up with AppExpress. It streams Windows software to PCs on an as-needed basis According to Bolcer, it takes as little as

Pa and no more than 10% of an application to be loaded on a Windows system before the operating system (with the help of an AppExpress agent) can launch it while the rest of the bits are flowing down the wire. That means users can start working almost immediately

Appl:xpress might also appeal to IT managers who want to ensure that all of their users are working with the same release of an application. Instead of the IT department remotely loading desktops with software that users might spiff up with plug-ins or urstates from CDs, every user can load the same version of an application from a single server that's centrally managed. Bolcer claims it works with both commercial products and custom applications.

Another on-demand computing tool is peer-to-peer software. Yes, it can be the bane of your existence if some of your users are hip music lovers who continue to flaunt copyright laws and chew up network bandwidth exchanging MP3 files. But peer-to-peer can be applied cleverly to benefit your users.

Or so thinks Marty Lafferty, CEO of the Distributed

Destination Desktop ACK IN 1985. I shochorned my way into a room packed with Sun Microsystems

engineers to listen to company co-founder Bili Joy talk about on-demand computing. He was one of the earliest thinkers on the subject. Of course, that's not what he was calling it back then. And he wasn't talking about servers with capacity on demand either. His ideas revolved around how to exploit all those idle MIPS on desktop workstations, which was all Sun made at the time. Nearly 20 years later Sun, IBM, Hewlott-Packard Computing Industry Association in Arlington, Va.

His group's goal is to levitimize the new stigmarized file-sharing protocol in the eyes of the entertainment industry so that more content will be made available to peer-to-peer users. While that's a Prometheon task given the Luddite mentality of most entertainment executives, he may actually get more immediate traction with IT vendors that can leverage the protocol for knowledge-based applications Poer-to-poer, Lafferty suggests, is

an ideal protocol for the discovery and delivery of content." With it, knowledge management applications and search engines will be able to reach "the next level" of capability, he says.

Imagine a peer-to-peer application running inside a pharmaceutical company's R&D department. Each time one researcher learns something from an experiment, the results can be automatically provided to other interested scientists, Although there are knowledge management

systems that do similar things today, they are touch to implement, difficult to manage and expensive to deploy. Peer-to-peer is a straightforward, open protocol anyone can use. Both Bolcer and Lafferty are grateful that the big

vendors are endlessly bending your our with chatter about the advantages of on-demand communities We're riding that wave." Bolcer says. "It's nice not having to educate users on the benefits of on-demand

computing: However, before advocates of on-demand computing for desktops ride the crest of that wave inside IT departments, they'll need to apply the system management discipline common among server vendors. For one thing they'll need to factor in complex corporate security requirements, which are easier to manage on servers than on individual desktops. Managing bandwidth for on-demand purposes that emanate from desktops is tougher than controlling it from servers

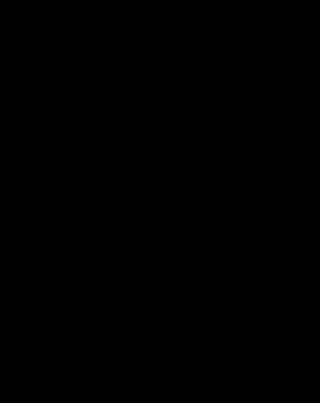
That's why we're seeing so much of the on-demand excitement and development on these centralized

Still, the server vendors are ignoring the beginning of the on-demand computing story: the part that begins on your desktop. O 47259

applications where the on-demand model works well for workstations For example, Greg Bolcer, chief technoloapplication testing.







SNAPSHOTS







MARK HALL

Destination Desktop

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Imagine a peer-to-peer application running inside a pharmaceutical company's R&D department. Each time one researcher learns something from an experiment, the results can be automatically provided to other interested accionies. Al-

though there are knowledge management systems that do similar things today, they are tough to implement, difficult to manage and expensive to deploy. Peer-to-peer is a straightforward, open protocol among can use.

Both Bolcer and Lafferty are graceful that the big vendors are endlessly bending your ear with chatter about the advantages of on-demand computing. "We're riding that wave," Bolcer says. "It's nice not

having to reducate users on the benefits of on-demand computing.

However, before advocates of on-demand computing.

However, before advocates of on-demand computing for desktops ride the creat of that wave inside TT departments, they'll need to apply the system management discipling common among enter redone. For exercising the properties of the computer composed exercising the properties of the computer composed exercising the properties of the computer composed exercising the computer of the computer compute

That's why we're seeing so much of the on-demand excitement and development on these centralized server systems.

Still, the server vendors are ignoring the beginning of the on-demand computing story: the part that begins on your desktop. © 47259

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LETTERS TO THE EDITOR

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42 98 × Hewlett-Packard Co. last week added an identity management product to its OpenView line of management tools, using

technology that was acquired when it hought TruLogica Inc. in March The OpenView Select Identity software automates a wide range of identity and end-user access-control tasks, according to HP. It will be integrated with OpenView Select Access.

said Select Access product manager Andrew Flint Select Identity gives IT managers the ability to centrally update an end user's permission to use technology resources, according to HP Select Access on the other hand, can be used to provide end users with single sign-on capabilities and access to federations of related Web sites.

purchase of Bultimore Tech nologies Inc. last September at Boulder hought Select Access in February and plans to complete a rollout of the soft ware in October, said Ion Giltner, director of IT analysis, architecture and security at the university. He added that the school's IT staffers are reviewing Select Identity and similar products from other vendors

cause it would only affect how efficiently the IT staff operates. Select Access will help automate authentication and authorization tasks across the upingesity he noted

Pete Lindstrom, an analyst at Spire Security, LLC in Molvern Pa., said the addition of Select Identity shows that HP is trying to put together a well-rounded set of security management products that can compete with offerings

would be a lower priority be-

from vendors such as IBM's Tivoli Software unit. Computer Assocutes International Inc. and BMC Software Inc.

Select Access starts at \$21 per user for 1,000 seats and drops in price as the number of users increases. Select identity starts at \$75 per user for the same number of licenses. Both are available now, HP sted O 47776

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which itself evolved from HP's Continued from page 1

Comdex

help determine bow the show can best meet the industry's future needs. That's a good idea, noted several IT executives who maintained that the show has lost its focus

Eric Goldfarb, CIO at financial services company PRG-Schultz International Inc. in Atlanta, said a one-year history is "prudent . . . rather than killing the show completely from lack of support."

Philip Brody, chief technology officer for the Clark County School District in Nevada, said the absence of the abow this year won't be a loss for him or his IT staff. "In the past, it had always been too hig." he said I get weer several staff mannbers attended but were disappointed, Brody said.

"I was surprised but not disappointed when the event was canceled," said Ron Calderone, CIO at Liberty Corner N Labourd Raliant Pharmacous ticals Inc. "I have not attended the event in years ... My preference would be the more targeted shows." Damien Bean, vice president of corporate systems at Hilton Hotels Corp. in Beverly Hills, Calif., said he was "disappointed" when he last attended Comdex two

years ago. "As products mature... the large conference format has diminishing returns," he said. Industry-specific shows are

among other functions.

more useful "because they are more application-oriented." said Randy James, CIO at Americo Life Inc. in Dallas fones added that aithough he has attended Comdex several times in recent years, he didn't plan to go in November.

Value Judgment Others said they see value in Comdex and are dismayed by

Tsvi Gal, CIO at New York based Warner Music Group. said he believes there's a need for shows like Comdex. "I do see value . . . if the vendors take it seriously as 'the hie event," be said. "It used to be the forum for announcements of new directions and new

its cancellation

technologies. The vendors don't do it anymore, so it lost significant value there Henry Volkman, CIO and IT director as Lake Forest, Califbased restaurant chain Del Taco Inc., said he has "always. found the show useful, even though most of us aren't able to implement the latest innovations where we work until they are almost old hat." Gen eral IT shows like Comdex are as valuable as more targeted shows, he said, "since the field

gets more dynamic every year attendens could onder Dall and continues to grow beyond anyone's ability to put it in one tent or a single event." Dell spokesman Jess Blackburn said that his company

Giltner said Select Access

offers clear benefits for 200

end-user departments at the

school, but Select Identity

hasn't had a major booth on the Comdex floor because "we several years ago that the trade-show format for us was not particularly effective." Instead, Dell last year had

several self-serve kiosks where

computers. The company pre fers to have more personalized meetings with customers in hotel unites outside the exhibit hall, Blackburn said Last year's Comdex was slimmed down and touted by

MediaLive as a focused, busi ness-to-business IT event instead of a glitzy consumer oriented show. About 40,000 people attended last year down from around 200 000

in its heyday in the 1990s. Eric Faurot, general manager of Comdey, said a key to again making Comdex a mustsee event is to get the major IT vendors back on the show floor so products can be compared more fully. "We're talking with everybody, and that's exactly what the [Comdex Ad-_ visory] Board is going to address," he said. "The reality is it takes time to get trust back.

Comdex Advisory Board Takes Shape

large that 'you have to ask your

self, are you getting incremental

exposure to customers, or are

you lending your name or pres-

ence to smaller companies?

[The latter is] not of great int

est to market leaders like EMC." When the Corndex cancella-

in this year's show, Fir

other it would part

said. But we filed their

MediaLive international is form-ing a Comdex Advisory Board to get advice from (T executives hat it hopes will help turn the how's fortunes around in 2005.

with Computerworld last w about the job the group is orge Paolini, general ma per for development tools at ordend Software Corp., said at while complete details of on being set out for the aren't yet known, such adrosystems Inc. has orga nd similar user and vendor

ds for its JavaOne con es, he said. Medici. Ivo CEO est Hock is Trying to

done . . . to make it a success going forward," Paolini said. Mark Fredrickson, a spoie direction," he said, referring to the initial changes that Media-Live made after becoming Comdex's promoter last year man for storage vendor EMC Corp., said he will be there to Tom Pills, a spor i his company's visi how Comdex could lit into EMC's future plans. For major vendors, he said, Covidez has become so

Microsoft Corp., said his compa ny was still evel. etico ils oneence at this year's show when the event was canceled. Comp ny co-founder Bill Gates has givon the opening keynote at Comdex for 21 of the past 25 years, he said, and the company has had exhibit space on the face. One commitment is that Jeff Singsess, Microsoft's director of

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events, will serve on the Comdo advisory board, Pille said. "We're lutely happy to participate he said. "We'll see what comes

- Todd R. Weins

FRANK HAYES . FRANKLY SPEAKING

Death to Comdex

HERE WON'T BE A COMDEX in Las Vegas this fall. That doesn't even sound surprising, does it? But it would have been unthinkable in 1995, when Comdex founder Sheldon Adelson cashed out for \$864 million and used the money to build a Las Vegas hotel. Back then, everyone thought Comdex would keep going forever.

Today, Comdex has finally run out of gas. Its current owner canceled this year's show and is casting about for ways to make Comdex important to IT people again.

But their worst nightmare could be Adelson.

A year ago, Adelson smelled blood in the water. He was busily telling interviewers everything he thought was wrong with Comdex, which lost 40% of its attendance in 2001 and never recovered. Adelson said he was thinking about launching a trade show to compete headto-head against Comdex - same week, same town, but it would be the show that Adelson believes Comdey should have become

And that's no idle threat. Adelson controls his own hotel and convention center in Las Vegas - bought with Comdex profits. He's worth almost \$2 billion. He's 70, but he's still the man who started Comdex 25 years ago and built it into the monster show it once was. If anyone can create a Comdex-killer, Adelson can. Sounds a lot more interesting than reviving Comdex itself, doesn't it?

That's because Comdex really is past its prime. Look, trade shows rise, peak and then fall. From the mid-1980s until 2001, Comdex towered over the IT industry. It grew with the rise of PCs and the dealers who sold them remember, Comdex was short for "Computer Dealers Exposition.* Before Comdex, the monster show was the

National Computer Conference, a not-for-profit, volunteer-staffed event that was half trade show half technical symposium. That made sense from the 1960s through the mid-'80s, when data processing departments leased their mainframes wrote most of their own software and needed research papers as

much as they needed buying guides. The NCC peaked in 1983. But with the PC revolution, it no longer made sense. By 1988, it was gone. Comdex peaked in 1997. But some where along the line, it, too, stopped

making sense. Sure, it was too big and impossible to navigate. But that had been true for a decade. Everybody complained, but they still came. Then they stopped coming. Now Corndex is dead in the water.

Can Comdex's owner save it? Yes - and no. MediaLive International probably can rescue its investment in what's still a valuable property. The company can save what was once its crown jewel from Adelson's Comdex-killer. But only by killing Comdex.

Yes, it's a powerful brand. But today the negatives outweigh the positives. Both vendors and IT people hear Comdex and think of the PC-era show that has outlived its usefulness. And they always will. Which means every effort to revive a show named Comdex is doomed.

Do MediaLive's executives know this? Probably. Last year, they tried to turn Comdex into a show focused on enterprise IT. Attendance was barely half the 80,000 the company had hoped for. The name still drove people away. In April, MediaLive created a user-oriented

advisory council. The company also formed an advisory board full of vendors that had abandoned Comdex in recent years. MediaLive now has all the input it needs. And last week, MediaLive spiked this fall's Comdex.

Don't bring it back, guys. Give us a new show in November 2005. One that helps enterprise IT people learn and make decisions for what they do today. One that can grow into the big show that brings the industry together. One that will

give IT people a reason to come and to forget Comdex. If you don't kill Conndex, some ne else will. And you've got a pretty good idea who. O 47750

Where's the Fire?

for six months, pilot fish keeps replacing the PC tal operating room because neck out fine on the test bench, but wi combust," fish says. "Finally, we di



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